



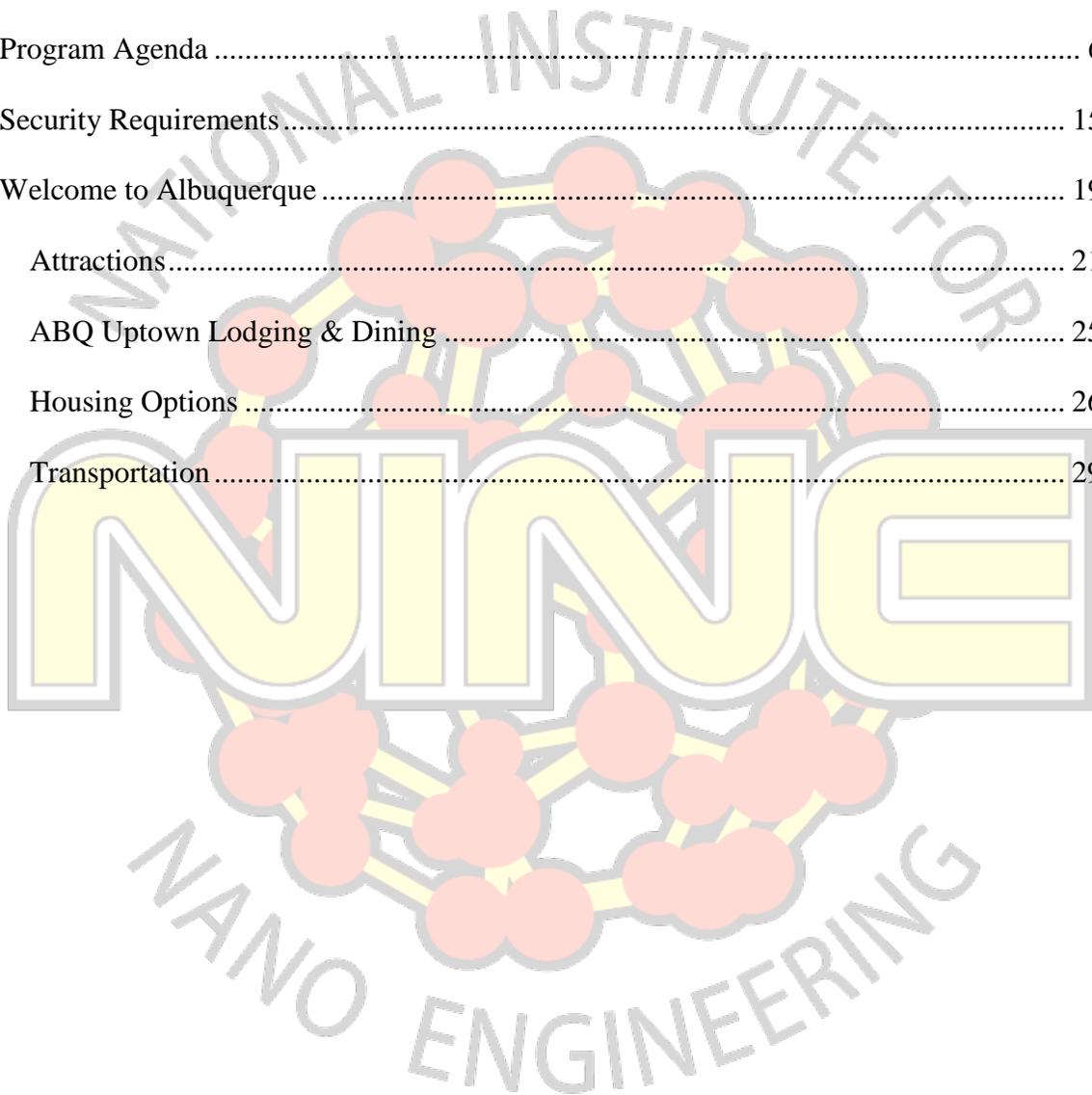
2009 STUDENT SUMMER PROGRAM

THE NATIONAL INSTITUTE FOR NANO-ENGINEERING

June 1st – July 25th, 2009

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WELCOME FROM REGAN STINNETT

NINE Program Manager

All of us on the NINE Team join together in welcoming you to Sandia National Laboratories and to the 2009 NINE Summer Program! This summer we plan to provide exciting opportunities for you to participate with your Sandia mentors in world-class research covering a spectrum of potentially world-changing applications of nanotechnologies.

In addition we are offering many complementary activities to broaden your skills in areas that will help to lay the foundation for you to become the innovators that our country needs to retain its global technology leadership position in the future. We have updated our program significantly from last year to include new seminars, hands-on activities, and a real life case study featuring a special guest.

Activities include hands-on work at the nanoscale using a variety of nanofabrication and characterization tools and techniques. We are also offering seminars on nano-related topics ranging from intellectual property, innovation and commercialization, to the business, legal and social issues involved in nano-engineering.

Near the end of the summer you will all get to share what you have learned during your time here as part of our student presentation program.

This year's theme will focus on "Problem to Product." This will address not only how to formulate innovative nano-related technologies to solve current issues in today's world, but also how to develop a product that can successfully be brought to market. I am especially looking forward to this year's case study. We will discuss a technology that was developed here at Sandia by a world-renowned scientist and the real-world obstacles in bringing the innovative idea to market.

Our team looks forward to meeting and working with you while you are here this summer. Please refer to our website (www.sandia.gov/NINE) and look us up on Facebook at "SandiaLabs NINEProgram" for updated program information. At any time, feel free to contact us if you have any questions or suggestions by emailing nine@sandia.gov.

Sincerely,

Regan Stinnett
NINE Program Manager



Dr. Regan Stinnett is Program Manager for the National Institute for Nano-Engineering (NINE) at Sandia National Laboratories. Regan did his thesis work in plasma physics, graduating from the University of Texas at Austin in 1977.

He was hired by Sandia National Laboratories to do research in inertial confinement fusion and pulsed power. For several years he led the Ion Source and Beam Experiments Departments. In 1995, after co-inventing a new ion beam surface treatment technology, Regan left Sandia to found Quantum Manufacturing Technologies Inc., where he served as President and CEO.

Since his return to Sandia in 1999, he has worked with the MESA team on microsystems technologies, established new partnerships between Sandia's micro/nano programs and U.S. universities, worked with Sandia's Advanced Concepts Group, co-leading its study of microsensor systems for the War on Terrorism, and served as manager for the Intrusion Detection Technologies Dept. In 2007 Regan became Program Manager for NINE.

Regan has received the U.S. Department of Energy Award of Excellence for Contributions to the Nuclear Weapons Program and is the holder of 5 patents.

WHAT IS NINE?

The National Institute for Nano Engineering (NINE) is a government/university/industry collaboration formed to develop the next generation of innovation leaders for the United States. NINE involves students in large scale multi-disciplinary research projects focused on developing nano-enabled solutions to important national problems. NINE addresses a growing national concern: that America's science and engineering education and innovation engine are in danger. The America COMPETES Act, signed in August 2007, provides a national strategy to mitigate this concern.

NINE was established as a national innovation hub in the exciting and rapidly developing field of nano-engineering. NINE is intended to be the model of a novel partnership between universities and U.S. companies and the Department of Energy (DOE), with Sandia National Laboratories as the host lab for NINE.

NINE graduate students: These students have thesis projects that are part of the NINE research program and work during summers at Sandia or at industry partner sites. NINE's technical projects are selected with input from partners to ensure high application and economic value.

NINE undergraduate students: Retaining and motivating top undergraduates to obtain advanced degrees are NINE priorities. To accomplish this, NINE supports the selection of promising undergraduates by NINE faculty to participate with graduate students in NINE projects at their university during the academic year. In addition, they have opportunities for summer internships with Sandia or industry.



NINE Industry Partners

PROGRAM HIGHLIGHTS FROM 2008



“There was a good balance of daily planned activities and free time in the evenings. I thought the schedule was well thought out and I think the program succeeded at exposing students to the importance of nanotechnology as a science as well as related issues that will affect its integration into the real world.”

NINE Student Participant

“I learned more in this one week than I would have in a whole semester of class on Nanotechnology.”

Community Week Undergraduate Student



“Besides learning about new and fantastic technologies, expanding and enriching my skill sets, and challenging myself with complicated problems, I've made many friends and important connections. This is one of the best jobs I've ever had.”

NINE Graduate Student



PROGRAM AGENDA

NINE activities for the 9 week session will *usually* be scheduled at CINT or AML. Students are expected to attend all scheduled events.

●	NINE, NINE/NSF, NINE Associate project student attendance required
●	NINE, NINE/NSF, NINE Associate project student attendance optional
●	NINE Expo student attendance required

WEEK 1

Sunday, June 1 – Saturday, June 6				
●	—	—	NINE and NINE/NSF Students get acquainted with their Sandia mentor(s) and summer research project	—

WEEK 2: June Nano Expo Week

Sunday, June 7				
—	●	6:00 p.m.	Meet and Greet Nano Expo Students at hotel; distribute Sandia “T” badges	Hyatt Place
Monday, June 8				
●	●	8:00 a.m.	Welcome, Introduction to Sandia and NINE (<i>Duane Dimos, Justine Johannes, Regan Stinnett</i>)	CINT/1026, 1028
●	●	9:00 a.m.	Student Introductions	
●	●	9:30 a.m.	Agenda Overview and Student Expectations (<i>Regan Stinnett, Rene Sells</i>)	
—	—	10:00 a.m.	Break	
●	●	10:15 a.m.	Center for Integrated Nanotechnologies (CINT) Overview (<i>Neal Shinn</i>)	
●	●	10:45 a.m.	Travel to National Solar Thermal Test Facility (NSTTF)	
●	●	11:15 a.m.	NSTTF Overview and Tour (<i>Nate Siegel</i>)	

PROGRAM AGENDA

●	●	12:00 p.m.	Travel to 858EL	858 EL/ L2000
●	●	12:30 p.m.	Lunch Break	
●	●	1:15 p.m.	Sunshine-2-Petrol Presentation (<i>Jim Miller</i>)	
●	●	1:45 p.m.	Microsystems and Engineering Science Applications (MESA) tour (<i>Carol Sumpter</i>)	
●	●	2:45 p.m.	Introduction of Willis Whitfield case study (<i>Regan Stinnett, Steve Walsh, Paul Smith</i>)	
●	●	3:15 p.m.	Logistics Wrap-Up, Q&A (<i>Regan Stinnett, Rene Sells, Glory Emmanuel</i>)	
—	—	3:30 p.m.	Adjourn	
●	●	6:30 p.m.	NINE Launch Party at Regan's House	
Tuesday, June 9				
●	●	8:30 a.m.	What is it like to be an Entrepreneur and a Dose of Accounting (<i>Regan Stinnett</i>)	CINT/1026, 1028
—	—	9:45 a.m.	Break	
●	●	10:00 a.m.	Small is Cool: The Amazing World of MEMS and Nanotechnology (<i>Marlene Bourne</i>)	
—	—	11:15 a.m.	Break	
●	●	11:30 a.m.	Lunch Break	
●	●	12:00 p.m.	Interview with Willis Whitfield (<i>Regan Stinnett, Steve Walsh</i>)	
—	●	1:00 p.m.	CINT Hands-On Activities	
—	—	5:00 p.m.	Adjourn	

PROGRAM AGENDA

Wednesday, June 10				
—	●	9:00 a.m.	<ul style="list-style-type: none"> • Introduction to AML & Nanotech • Now You're Cooking: Nanoparticle Synthesis & Characterization Workshop 	AML Large Conf Rm
—	—	5:00 p.m.	Adjourn	
Thursday, June 11				
●	●	8:30 a.m.	NanoFest: "Nano-Based Solutions - Problem to Product"	897/ 1010, 1012
—	—	4:00 p.m.	Adjourn	
●	●	5:30 p.m.	Meet in Hyatt Place lobby/depart to Sandia Peak	—
Friday, June 12				
●	●	9:00 a.m.	Understanding Intellectual Property? (<i>Paul Smith</i>)	CINT/1026, 1028
●	●	9:30 a.m.	Innovation presentations from local companies (<i>Tom Anderson, JB Tuttle, Tom Brennan</i>)	
—	—	11:00 a.m.	Break	
●	●	11:15 a.m.	Innovation Panel Q&A (<i>Moderator: Regan Stinnett</i>)	
●	●	11:45 a.m.	Lunch Break	
●	●	12:15 p.m.	Anticipatory Governance of Emerging Nanotechnologies (<i>David Guston</i>)	
●	●	1:30 p.m.	Travel to Area 4	
●	●	2:00 p.m.	Z Machine Tour (or video/talk) (<i>Guy Donovan and/or Regan Stinnett</i>)	
●	●	3:15 p.m.	Travel back to CINT	
●	●	3:45 p.m.	Case Study Group Discussion (<i>Regan Stinnett and/or Steve Walsh</i>)	

PROGRAM AGENDA

—	●	4:15 p.m.	Close Out (Survey, etc.)	
—	—	5:00 p.m.	Adjourn	
Saturday, June 13				
●	●	8:00 a.m.	Meet in Hyatt Place lobby/depart to Santa Fe and Bandelier	
Sunday, June 14 – Expo Students return home				

WEEK 3

Monday, June 15				
●	—	8:30 a.m.	History & Future of Microelectronics (Part I) (<i>Ted Dellin</i>)	CINT/ 1026, 1028
—	—	12:30 p.m.	Adjourn	
Tuesday, June 16				
●	—	8:30 a.m.	History & Future of Microelectronics (Part II) (<i>Ted Dellin</i>)	CINT/ 1026, 1028
—	—	12:30 p.m.	Adjourn	

WEEK 4

Monday, June 22				
●	—	9:00 a.m.	Social Styles Seminar (<i>Keri Stewart</i>)	897/1010, 1012
●	—	11:00 a.m.	Case Study Group Discussion (<i>Regan Stinnett</i>)	
—	—	11:30 a.m.	Adjourn	

PROGRAM AGENDA

WEEK 5

Monday, June 29				
●	—	9:00 a.m.	Strategic Selling (<i>Lenann McGookey</i>)	897/1010, 1012
●	—	11:00 a.m.	Case Study Group Discussion (<i>Regan Stinnett and/or Steve Walsh</i>)	
—	—	11:30 a.m.	Adjourn	

WEEK 6

Monday, July 6				
●	—	8:30 a.m.	CINT Hands-On Activities	CINT/ 1026, 1028
—	—	11:30 a.m.	Adjourn	

WEEK 7

Monday, July 13				
●	—	9:00 a.m.	Using TRLs to Manage Technology and Cross the “Valley of Death” (<i>Mike Daily</i>)	897/1010, 1012
●	—	11:00 a.m.	Case Study Group Discussion (<i>Regan Stinnett and/or Paul Smith</i>)	
—	—	11:30 a.m.	Adjourn	

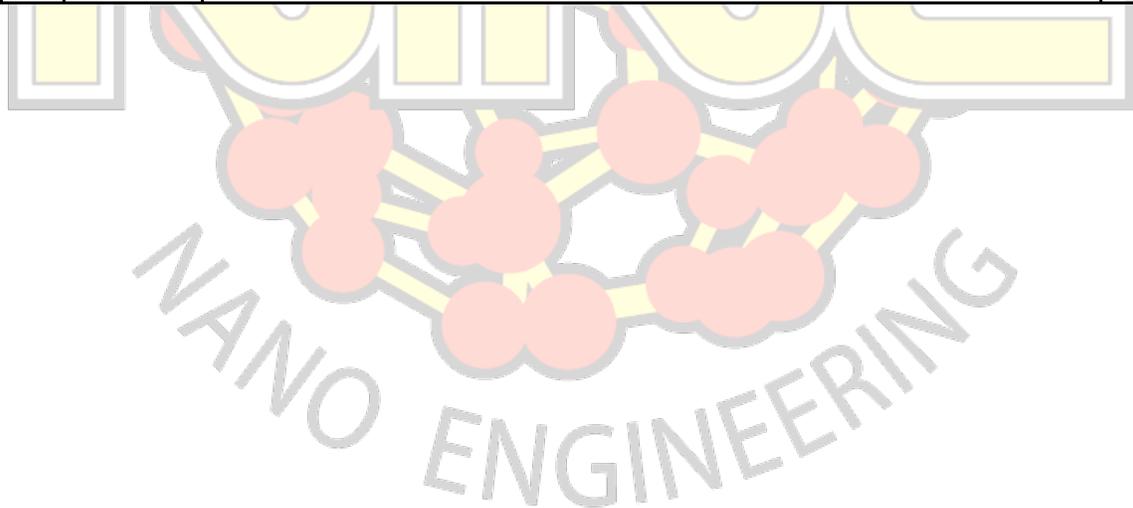
PROGRAM AGENDA

WEEK 8: July Nano Expo Week

Sunday, July 19				
—	●	6:00 p.m.	Meet and Greet Nano Expo Students at Hyatt Place; distribute T badges	—
Monday, July 20				
—	●	8:00 a.m.	Welcome, Introduction to Sandia and NINE (<i>Duane Dimos, Justine Johannes, Regan Stinnett</i>)	CINT/1026, 1028
—	●	9:00 a.m.	Student Introductions	
—	●	9:30 a.m.	Agenda Overview and Student Expectations (<i>Regan Stinnett, Rene Sells</i>)	
—	—	10:00 a.m.	Break	
—	●	10:15 a.m.	Center for Integrated Nanotechnologies (CINT) Overview (<i>Neal Shinn</i>)	CINT/ 1026, 1028
—	●	10:45 a.m.	Travel to National Solar Thermal Test Facility (NSTTF)	
—	●	11:15 a.m.	NSTTF Overview and Tour (<i>Nate Siegel</i>)	
—	●	12:00 p.m.	Travel to 858EL	858 EL/L2000
—	●	12:30 p.m.	Lunch Break	
—	●	1:15 p.m.	Sunshine-2-Petrol Presentation (<i>Jim Miller</i>)	
—	●	1:45 p.m.	Microsystems and Engineering Science Applications (MESA) tour (<i>Carol Sumpter</i>)	
—	●	2:45 p.m.	Introduction of Willis Whitfield case study (<i>Regan Stinnett and/or Steve Walsh</i>)	
—	●	3:15 p.m.	Logistics Wrap-Up, Q&A (<i>Regan Stinnett, Rene Sells, Glory Emmanuel</i>)	
—	—	3:30 p.m.	Adjourn	

PROGRAM AGENDA

●	●	6:00 p.m.	NINE Student Mixer at Hyatt Place	1
Tuesday, July 21				
—	●	8:30 a.m.	What is it like to be an Entrepreneur and a Dose of Accounting (<i>Regan Stinnett</i>)	CINT/1026, 1028
—	—	9:45 a.m.	Break	
●	●	10:00 a.m.	Nanotechnology Marketplace (<i>Steve Walsh</i>)	
—	—	11:15 a.m.	Break	
—	●	11:30 a.m.	Lunch Break	
—	●	12:00 p.m.	Interview with Willis Whitfield (<i>Regan Stinnett</i>)	
—	●	1:00 p.m.	CINT Hands-On Activities	
—	—	5:00 p.m.	Adjourn	



PROGRAM AGENDA

Wednesday, July 22				
—	●	9:30 a.m.	Understanding Intellectual Property (<i>Paul Smith</i>)	CINT/ 1026,1028
●	●	10:00 a.m.	Grad Student CINT Tours	
●	●	11:00 a.m.	Innovation for Counterterrorism (<i>Bruce Held</i>)	
●	●	12:00 a.m.	Lunch Break	
●	●	12:45 p.m.	Life After Graduation	
—	—	1:45 p.m.	Break	
—	●	2:00 p.m.	Anticipatory Governance of Emerging Nanotechnologies (<i>Jamey Wetmore</i>)	
—	—	3:15 p.m.	Break	
—	●	3:30 p.m.	Case Study Group Discussion (<i>Regan Stinnett and/or Steve Walsh</i>)	
—	●	4:00 p.m.	Close Out (Survey, etc.)	
—	—	4:30 p.m.	Adjourn	
●	●	5:30 p.m.	Meet in Hyatt Place lobby/depart to Sandia Peak	—
Thursday, July 23				
●	●	8:30 a.m.	NINE Community Mixer Introduction	National Atomic Museum
●	●	9:00 a.m.	NINE Industry Partner presentations	
—	—	10:30 a.m.	Break	
●	●	10:45 a.m.	Student Presentations	

PROGRAM AGENDA

●	●	11:45 a.m.	Lunch Break	
●	●	12:30 p.m.	Student Presentations	
—	—	1:30 p.m.	Break	
●	●	1:45 p.m.	Industry Panel Q&A (<i>Moderator: Regan Stinnett</i>)	
●	●	2:30 p.m.	Student Posters	
●	●	4:30 p.m.	NINE Community Meeting	
●	●	5:30- 7:00 p.m.	Reception with NINE Industry and University Partners	
Friday, July 24				
●	●	9:00 a.m.	AML Grad Student Workshop	AML Large Conf
—	—	5:00 p.m.	Adjourn	
Saturday, July 25 – NanoExpo Students return home				

WEEK 9

Monday, July 27 – Friday, July 31				
●	—	—	NINE and NINE/NSF Students wrap up their summer research projects with their Sandia mentor(s).	

SECURITY REQUIREMENTS

While on base, there are a few rules and regulations that all employees, residents, and visitors need to be aware of. They include the following:

Kirtland Air Force Base: Sandia National Labs

- All visitors entering Kirtland Air Force Base must have a legitimate badge. Paperwork must be completed prior to the visit to obtain a badge. The Badge Office is located off-base at Innovation Parkway Center (IPOC), Suite A-1.
- Badges must be worn **at all times** while on base.
- Lost, stolen, or misused badges must be reported to the Badge Office **within 24 hours** of discovery. If your badge is lost or stolen, report it **immediately** to the Badge Office at 284-3626.
- Badges must be removed while leaving base. Badges cannot be worn in any public area and must be securely stowed.
- Cell phone use while driving is **prohibited**. This is applicable while entering through the base gates and while driving on site. Hands-free devices are permitted.
- Strictly obey the speed limits and all other driving instructions. If you are pulled over, the ticket is considered a federal offense, NOT a city or state ticket.
- Computers with wireless internet capabilities must have their network signals turned off! Internet connections must be disabled before entering through the base gate.
- Smoking, alcoholic beverages, and all illegal drug substances are **prohibited** in all Sandia areas.

Within Sandia, there are different technical areas with varying rules and regulations. The following are restrictions listed according to building and area. It is important to know these limitations before entering any building to avoid strict penalties.

Center for Integrated Nanotechnology (CINT)

- Badges must be worn in the building, above the waist and in clear view, at all times.
- Students must have a need-to-know or specific business as they walk around the building.
- Cell phones, PDAs (PalmPilots), laptops, and two-way pagers that have camera capabilities are not permitted into the building. They must be left outside of the building. They cannot be left at the receptionist desk.
- Audio, video, optical, and data recording devices (i.e. non Sandian-owned BlackBerrys, flash/thumb drives, iPods, MP3 players, etc.) are not allowed in the facility.
- DOE-owned computers do not require paperwork to be brought into the building. All business/university/personal computers need to have the attached ([CINT Cyber Devices](#)) form filled out by you or your organizational OAA prior to your visit to the CINT facility and a copy of the completed form needs

SECURITY REQUIREMENTS

to be turned in to a CINT administrator prior to leaving the lobby area. The original form must remain with the device at all times.

- Wireless networking is NOT available for anyone other than the CINT Scientists, their users, and Sandians that have Crypto Cards and VPN on their computers.
- Smoking is prohibited on the premises.

Computer Science Research Institute (CSRI)

- Standard hazardous materials (explosives, lighters, drugs, alcohol, etc.) are prohibited.
- Cell phones are permitted.
- Personal laptops are allowed but a "One-time Exception Form" will need to be filled out, located at the reception desk in the Lobby. The Sandia Hotel Network (Thunderbird) is not accessible by Sandia or personal laptops; only accessible files are those on their computers.
- The students do not need to be in constant sight of the PIs, but should not freely roam about the building unless they have business related work or a "Need-to-know."

Advanced Concept Group (ACG), Bldg 880: Restricted Area

- Students must wear badge at all times.
- Only a U.S. Citizen that is a SNL employee, contractor, or consultant with a Q or L clearance and DOE approved badge may escort.
- Escorts must remain with their student(s) at all times.
- Escorts must ensure that the student(s) do not gain access to classified information.
- Escorts must inform their student(s) of prohibited items. Items include: personally owned electronic equipment, RF transmitting equipment, any type of recording equipment, computers, removable computer media, cell phones or any cellular networking device, portable electronics, non-Sandia owned devices.
- Escorts allow access to the student(s) through automated gates using their own badge and pin. Students must wait next to gate until their escort swipes through.

Bldg 858EL/Bldg 858 South

- Students must wear badge at all times.
- Students are permitted to walk without an escort but should remain mindful of posted rules and signs.

SECURITY REQUIREMENTS

Bldg 897

- Students may not bring cell phones or any other type of electronic devices into the building. This includes iPods, PDAs, laptops, or any device with picture-taking capabilities. Only Sandia-approved electronics are permitted.
- Students may enter through the turnstile gate by swiping their badge.
- Students must be escorted into the building. The swipe at the front doors is not accessible by their badges.
- Escorts must know where there students are at all times but students do not need to be in constant sight. Students should only be present in business or “Need-to-know” areas.

Bldg 960, Tech Area 4, Restricted Area

- Students must wear badge at all times.
- Only a U.S. Citizen that is a SNL employee, contractor, or consultant with a Q or L clearance and DOE approved badge may escort.
- Escorts must remain with their student(s) at all times.
- Escorts must ensure that the student(s) do not gain access to classified information.
- Escorts must inform their student(s) of prohibited items. Items include: personally owned electronic equipment, RF transmitting equipment, any type of recording equipment, computers, removable computer media, cell phones or any cellular networking device, portable electronics, non-Sandia owned devices.
- Escorts allow access to the student(s) through automated gates using their own badge and pin. Students must wait next to gate until their escort swipes through.

Advanced Materials Laboratories (AML)

- It is necessary for escorts to be with students at all times. AML is not a cleared area but it is a laboratory area and supervision is required.
- Prohibited materials include laptops, cell phones with cameras, Blackberries, iPods and other media.
- The students are not permitted to enter the building alone.
- There is a sign-in visitor log that students will need to sign *every* time they enter the building.

BUILDING AND ROOM MAPS

The Hyatt Place Hotel in Albuquerque Uptown
6901 Arvada Ave NE
Albuquerque, NM 87110, USA
Phone: +1 505 872 9000 Fax: +1 505 872 3829

Directions from Albuquerque International Airport:

Drive West on Sunport Boulevard. Exit right to I-25 North to I-40 East, to Louisiana North (Exit 162). Turn right onto Arvada.

Directions from the North:

Take I-25 South to I-40 East and exit off of Louisiana Blvd (162) and make a left. Turn right on Arvada.

Directions from the South:

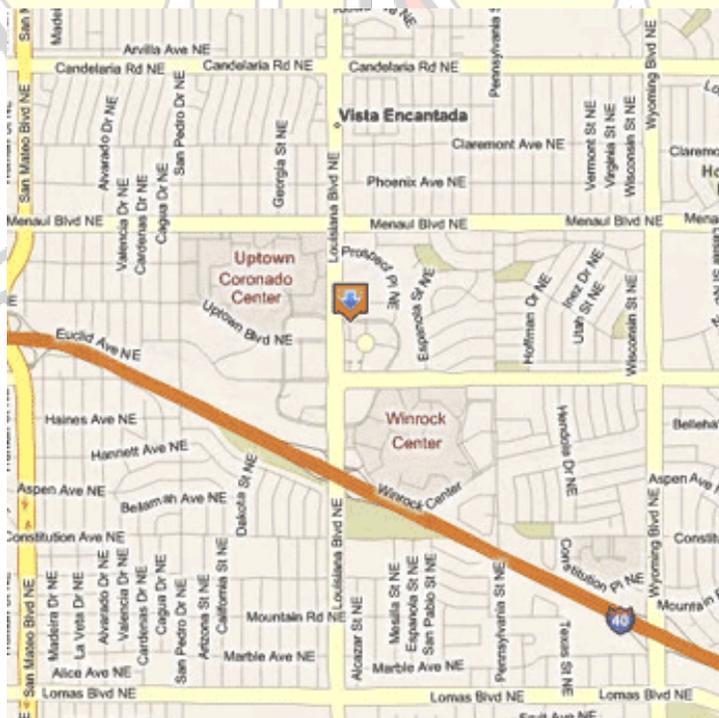
Take I-25 North to I-40 East and exit off of Louisiana Blvd (162) and make a left. Turn right on Arvada.

Directions from the East:

Take I-40 West to Louisiana Blvd (162) and exit right. Turn right on Arvada.

Directions from the West:

Take I-40 East and exit off of Louisiana Blvd (162) and make a left. Turn right on Arvada.



NATIONAL INSTITUTE FOR

WELCOME TO ALBUQUERQUE, NEW MEXICO



WELCOME TO ALBUQUERQUE

One of the oldest cities in the U.S., Albuquerque boasts a unique multicultural heritage and history where Native American, Hispanic and Latino, Anglo and other cultural influences are a part of everyday life. You'll always feel you're someplace special when you're eating at one of the traditional New Mexican restaurants, shopping at one of the more than 3,000 shops and galleries, or enjoying the world-class visual and performing arts. Nowhere is the confluence of past and present more dramatic than in Albuquerque, where the modern city skyline is set against a backdrop of the ancient Sandia Mountains and an endless, timeless blue sky.

Spectacular weather, with 310 days of sunshine, makes Albuquerque an ideal destination for outdoor activities, including golfing, biking and skiing. The unique weather features also make Albuquerque the hot air ballooning capital of the world. Balloons dot the clear blue skies almost every morning, revealing a myriad of colors year-round. At night, the city is bathed in the glow of neon signs, relics of Albuquerque's place on historic Route 66. Locals and visitors kick up their heels in the bustling downtown entertainment district, go out for a night of entertainment by one of our international theater and dance companies, or visit the new Uptown dining and shopping district.

The Uptown area is home to a major business center as well as EXPO NM, and two of Albuquerque's major shopping malls. EXPO NM is the home to the New Mexico State Fair, one of the largest State Fairs in the country, and during the year it is a major venue for sporting events, festivals and concerts. Coronado Center and the newly opened ABQ Uptown feature major national department stores with nationally recognized brands.

For more information, please visit <http://www.itsatrip.org/albuquerque/default.aspx>.



ATTRACTIONS

Albuquerque Aquarium

2601 Central Ave. NW

(505) 768-2000

<http://www.cabq.gov/biopark/aquarium/>

The Albuquerque Aquarium takes visitors on a journey down the Rio Grande from Albuquerque to its mouth in the Gulf of Mexico. Fresh water ravine, estuarine, surf zone, shallow waters, coral reefs, open ocean and deep ocean species are represented along the way. Other highlights include an eel tunnel, seahorses, luminous jellies and a 285,000 gallon ocean tank where brown, sand tiger, blacktop and nurse sharks swim alongside brilliantly colored reef fish, eels, sea turtles and open ocean species. Bus Route 66; Route 766 Rapid Ride.

Albuquerque Museum

2000 Mountain Road NW

(505) 243-7255

<http://www.albuquerquemuseum.com/>

The Albuquerque Museum on the edge of the city's Old Town explores New Mexico's past, using the largest collection of Spanish colonial artifacts in the United States to do so. Exhibits like Spanish armor and swords mingle with a recreated 18th-century adobe house compound. The museum also pays homage to the Vaqueros, the original cowboys who rode the range in New Mexico in the 16th century. There are also hands-on experiences to try like spinning wool and a theatre where films about the city are shown regularly. The museum provides a walking tour of the Old Town area departing at 11AM each day except Monday during spring, summer and fall. Bus Route 36.

Indian Pueblo Cultural Center

2401 12th Street NW

(505) 843-7270

<http://www.indianpueblo.org/>

The Indian Pueblo Cultural Centre is designed to give an introduction to New Mexico's rich Native American cultural heritage and the 19 individual pueblo communities of the State. The Centre is situated on 12th Street, about a mile northeast of the Old Town in Albuquerque, and is a recreation of Pueblo Bonito, a ruined Indian village in the Chaco Culture National Historic Park dating from the 9th century. The Centre also features a museum displaying early photographs, artifacts and artworks. A restaurant serves traditional fare and traditional dances are performed by different tribal groups. Those interested in seeing the real thing can make an excursion to Pueblo Acoma, 60 miles (96km) west of Albuquerque, and the oldest inhabited village in the United States, situated on a 367-foot high sandstone rock. Bus Route 36.

New Mexico Museum of Natural History and Science

1801 Mountain Road NW

(505) 841-2800

<http://www.nmnaturalhistory.org/>

ATTRACTIONS

The exciting Museum of Natural History takes visitors on a time trip through 12 billion years from the formation of the universe to the present day. From the earth's beginnings exhibits, displays and recreated scenes take you through an erupting volcano, an ice age cave, an aquarium, the dinosaur age and a fossil centre, giant screen theatre, planetarium and a naturalist centre, to name just a few of the educational entertainments offered. Bus Route 36.

Rio Grande Botanical Gardens

2601 Central Ave. NW
(505) 768-2000

<http://www.cabq.gov/biopark/garden/>

The lush and peaceful Rio Grande Botanic Garden is an oasis in the desert. The Garden currently encompasses 36 developed acres, including a 10,000 square foot glass conservatory housing native and exotic plants from desert and Mediterranean climate zones and the seasonal [PNM Butterfly Pavilion](#) featuring hundreds of free-flying North American butterflies and moths. (The butterfly pavilion is closed October through most of May.) Walking distance through the aquarium and garden is about 1.6 miles. Bus Route 66; Route 766 Rapid Ride.

Rio Grande Zoo

903 Tenth Street SW
(505) 768-2000 Fax: (505) 764-6281

<http://www.cabq.gov/biopark/zoo/index.html>

The Rio Grande Zoo Founded in 1927, the 64-acre Rio Grande Zoo offers visitors close encounters with more than 250 species of exotic and native animals. Popular species include seals and sea lions, chimpanzees, gorillas, orangutans, elephants, polar bears, giraffes, hippos, camels, tamarins, koalas, Mexican wolves, mountain lions, monkeys, jaguars, zebras and rhinoceros. State-of-the-art exhibit design and eye-pleasing landscaping enhance zoo animal husbandry by creating naturalistic habitats with trees, grasses, water features and rockwork. Walking distance through the zoo is about 2.25 miles. Bus Route 53.

Sandia Peak Tramway

10 Tramway Loop NE
Albuquerque, NM 87122
(505) 856-7325

<http://www.sandiapeak.com/>

The perfect awe-inspiring overview of Albuquerque can be had from nearly one mile (2km) above the city on top of Sandia Crest, the windy mountaintop where the view is said to extend for over 1,000 miles (1,609km). Simply follow Tramway Boulevard for a few miles north of the city to board the Sandia Peak Aerial Tramway, the worlds longest continuous jig back passenger tramway, which makes the ascent from the desert foothills to the summit in about 20 minutes. In winter skiers make use of the more than 30 trails descending from the mountain crest, while in summer hikers and

ATTRACTIONS

mountain bikers take the tramway up and enjoy nature on their way down. Pleasure seekers simply ride to the top to enjoy the view, which is particularly spectacular at sunset, and enjoy a meal at the High Finance Restaurant with its picture windows.

Albuquerque Isotopes Baseball Park

1601 Avenida Cesar Chavez SE
Albuquerque, NM
(505) 924-2255

www.albuquerquebaseball.com

Isotopes Park was remodeled a few years ago after the Albuquerque Dukes went to another town. The isotopes were born in hopes to bring baseball back to New Mexico. The field was then remodeled to represent the new team and what it is all about. There name came about from a man from New Mexico that had named a baseball team on the show The Simpsons. He then brought that name back and named New Mexico's AAA team the Albuquerque Isotopes.

Cinemark Movies 8

4591 San Mateo Blvd NE, Albuquerque, NM
(505) 888-1992

http://www.cinemark.com/theater_showtimes.asp?theater_id=14

Here you can watch the latest movies. Don't forget the popcorn, coke, and candy.

Cliffs Amusement Park

4800 Osuna Rd NE
Albuquerque, NM 87109
(505) 881-9373

www.cliffs.net

Cliffs Amusement Park is a small park full of fantastic rides that will make you sick, make you laugh, and above all, have a blast. Cliff's rides vary from Kiddieland to Thriller rides, like the New Mexico Rattler. You can purchase tickets as individual ride tickets or an all day ride pass good for all rides, all day.

Hinkle Family Fun Center

12931 Indian School Rd NE
Albuquerque, NM
(505) 299-3100

www.hinklefamilyfuncenter.com

Hinkle Family Fun Center has many attractions including; Arcades, Battletech Firestorm Virtual Reality Pods, Bumper Boats and Cars, Go Carts, Jungle Play, Laser Tag, Miniature Golf, Nickel City Arcade, Paintball, The Rock. They also have plenty of food for those hungry moments.

ATTRACTIONS

Lodestar Astronomy Center

1801 Mountain Rd NW
Albuquerque, NM
(505) 841-5955

www.lodestar.unm.edu/

The Lodestar Astronomy Center is located inside the Museum of Natural History and Science. At the Lodestar Astronomy Center you can go to the Planetarium and observatory to view the stars and a tour guide will explain to you all about the stars and the constellations. You can also view enlarged version of the planets on display in the Planet Exhibit. The Center also displays shows about the solar system we live in and the mysteries that involve our solar system.

Putt-Putt

5100 San Mateo Blvd NE
Albuquerque, NM 87109
(505) 881-9866

www.puttputtabq.com

At Putt-Putt golf you can play up to three levels of miniature golf. With the surroundings of a jungle it gives a very exciting atmosphere that makes this miniature golf course one of the most relaxing things to do in Albuquerque. Located near a Sonic and McDonalds, you could even go get ice cream after to complete a day of fun.

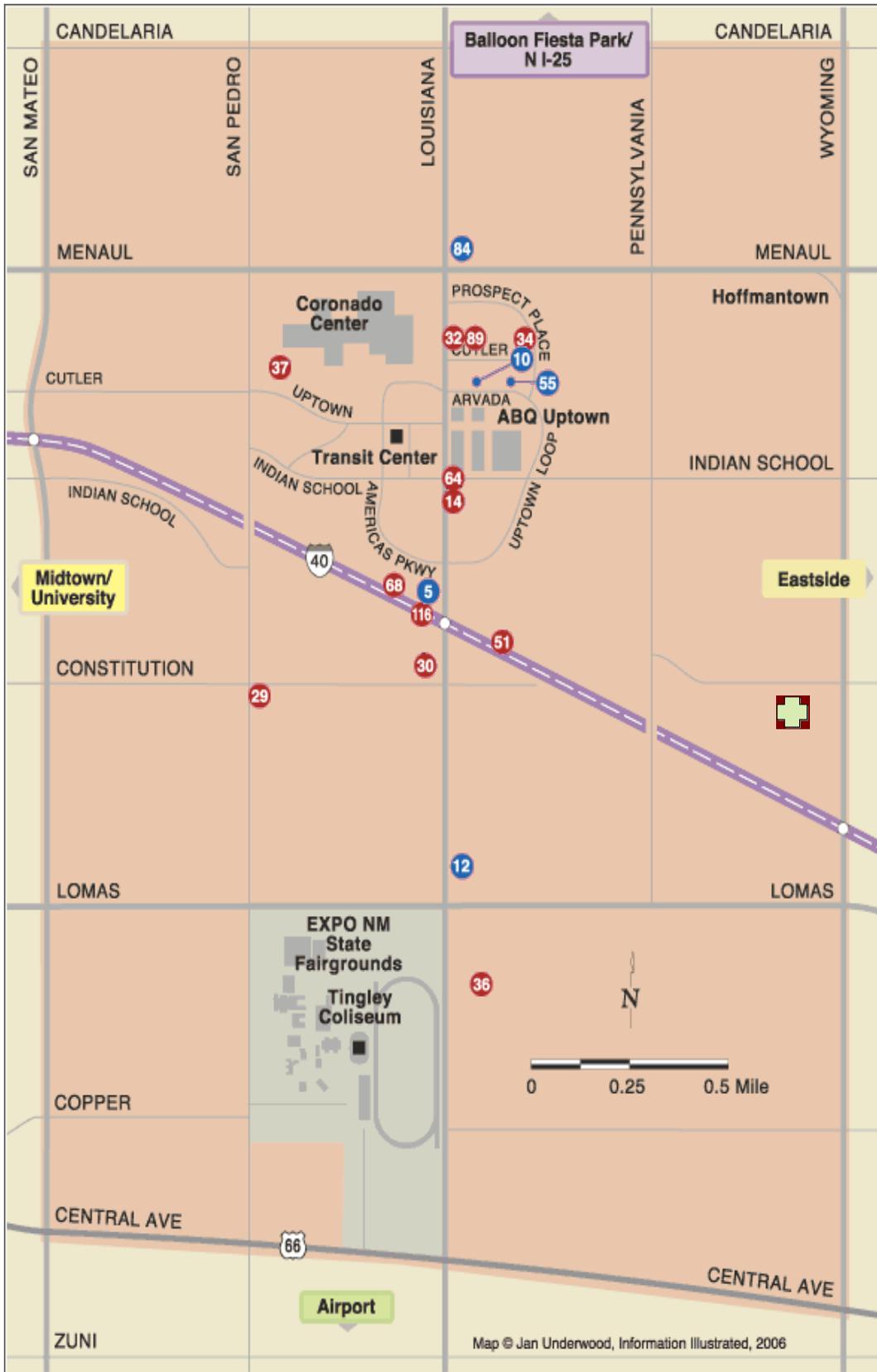
Stone Age Climbing Gym

4201 Yale Blvd NE # I
Albuquerque, NM 87107
(505) 341-2016

www.climbstoneage.com

Stone Age is New Mexico's largest indoor rock climbing gym! It is also the most fun "work-out" in Albuquerque. The climate-controlled facility features 12,000 square feet of climbing terrain & over 10,000 square feet of floor space. Enjoy bouldering, top rope & lead climbing. Take advantage of the fitness area and locker rooms. Additional services include climbing classes, personal training, Pilates, outdoor guide services, event/party hosting & a multi-purpose room. Stone Age features an awesome 20-foot overhanging lead cave, huge horizontal roof and archway, corners, cracks, buttresses, and roofs for your climbing excitement. Walls over 25-feet high lead routes up to 50-feet in length, Rest assured we have plenty of moderate terrain for beginning and intermediate climbers. Our NEW top out BOULDER and 1000 square foot bouldering cave with a fun entrance arch is sure to keep you entertained with a variety of challenges aimed at every level of experience. Stone Age offers numerous top-ropes and lead anchor stations averaging three climbing routes per rope. Routes range in difficulty from 5.6 to 5.13 with fun and adventure.

ABQ UPTOWN: LODGING & DINING



- LODGING:**
- 5: Albuquerque Marriott Hotel
 - 10: The Hyatt
 - 12: Best Western at Barcelona Suites
 - 55: Homewood Suites by Hilton Uptown
 - 84: Sheraton Albuquerque Uptown Hotel
- DINING:**
- 14: [Bravo! Cucina Italiana](#)
 - 29: [Christy Mae's Restaurant](#)
 - 30: [Cielo Sandia - Albuquerque Marriott Hotel](#)
 - 32: [Classic Grill - Sheraton Albuquerque Uptown Hotel](#)
 - 34: [Collectabili Tea](#)
 - 36: [Cooperage Restaurant & Lounge](#)
 - 37: [Country Kitchen](#)
 - 51: [Garduno's of Mexico](#)
 - 64: [Elephant Bar Restaurant](#)
 - 68: [Japanese Kitchen](#)
 - 76: [Le Chantilly Fine Pastries & Cafe](#)
 - 89: [Mystery Cafe](#)
 - 116: [Steak & Ale](#)
- EMERGENCY ROOM**
-  [Kaseman Presbyterian Hospital Off I-40, Wyoming & Constitution](#)

HOUSING OPTIONS

This information will hopefully help you to secure housing during your stay in Albuquerque, below is a list referencing *some* of the apartment complexes available in Albuquerque who offer short term leases (3 months); most require an additional rental fee (premium). Please inform the apartment agent that you are a Sandia summer student.

Find details for these apartments as well as many others at the following websites:

- Albuquerque Journal Classifieds – classifieds.abqjournal.com
- Apartmentguide.com
- CorporateHousing.com
- ForRent.com
- Oakwood Housing Solutions – www.oakwood.com
- SouthwestSuites.com

When doing search, be sure to select short term lease (3 month) availability.

Short Term Furnished Apartments

Chamness Relocation Services

Tel: 480-899-7222

Please say you found us on Biz-stay.com

ExecuStay Corporate Housing

Tel: 888-840-7829

Please say you found us on Biz-stay.com

30-day minimum

Southwest Suites

Tel: 505-294-7632

Please say you found us on Biz-stay.com

HOUSING OPTIONS

Note: This list is provided as a reference of some of the apartment complexes available in Albuquerque that are convenient to work and public transportation. Sandia National Laboratories does not endorse any particular complex.

Apt Name	Address	Phone #	Price range	Bus Access	Prem	Furn Unfurn
Allegro at Tanoan Apts	6601 Tennyson NE	505-332-9000	\$764-\$1264	Y	\$100	U
Eagle Point Apts	4401 Morris NE	505-291-9290	\$483-\$719	Y	\$100	U
Hunter's Ridge	13150 Wenonah SE	505-298-3270	\$591-\$834	Y	\$200	U
Kona Kai	7100 Natalie NE	505-884-3892	\$575-\$1350	Y	N/A	U
La Paloma	6001 Moon NE	505-828-1770	\$700-\$1100	Y	Y	U
Mirabella Heights	701 Stephen Moody SE	505-332-4300	\$695-\$715	Y	Y (5% SNL disc)	either
Oak Tree Park Apts	5800 Osuna NE	505-881-6667	\$610-\$820	Y	\$100	U
Pavilions	11600 Academy NE	505-292-3000	\$899-\$1409	Y	Y	both
Presidio at Northeast Heights	6350 Eubank NE	505-271-1400	\$750-\$1170	Y	\$100	U
The Retreat at Candelaria	3011 Jane Pl NE	505-299-4485	\$475-\$720	Y	\$150-\$200	U
Whispering Sands Apts	220 Western Skies Dr SE	505-294-2160	\$539-\$649	Y	\$100	U

Extended-Stay Hotels

Albuquerque also offers hotel housing for visitors who are staying for a temporary yet extended amount of time. The hotels listed below offer extended-stay rates. Hotels are ordered according to price, starting with the most upscale rooms.

[Residence Inn by Marriott - Albuquerque East](#)

100% nonsmoking. Upscale extended-stay studios & bi-level 2-bedroom/2-bathroom apartment suites with full kitchens, daily maid service & high-speed internet. Fitness center & heated outdoor pool. Free breakfast buffet & evening social hour. Weekly & monthly discount rates. [Map](#)

[Residence Inn by Marriott - Albuquerque North](#)

I-25, Jefferson exit. 100% nonsmoking. Upscale extended-stay studios, 1 & 2-bedroom/2-bath apartment suites with full kitchens, daily maid service & free HSA. Fitness center & heated outdoor pool. Free breakfast buffet & evening social hour. Week/month discount rates. [Map](#)

HOUSING OPTIONS

<p>Staybridge Suites - Albuquerque Airport Albuquerque south. New hotel (2008). Upscale extended stay studios, 1 & 2-droom/2-bath apartment suites with sofabed and free broadband internet. Free guest laundry facility, grocery shopping service, evening social & hot breakfast buffet. Onsite: business center, fitness center, indoor pool, convenience store.</p>
<p>Staybridge Suites - Albuquerque North New hotel (2007). Upscale studio, 1-bedroom & 2-bedroom/2-bath suites with fully equipped kitchens, desk with ergonomic chair & high-speed internet access. Complimentary breakfast buffet. Indoor pool & spa, 24-hour fitness room. Complimentary guest laundry & grocery shopping service. Map</p>
<p>Homewood Suites by Hilton - Albuquerque Airport Albuquerque south. New hotel (2006). Upscale extended-stay studios, 1 & 2-bedroom/2-bath apartment suites. Map</p>
<p>Homewood Suites by Hilton - Albuquerque Uptown Albuquerque east. Upscale extended-stay 1-bedroom apartment suites. Map</p>
<p>Homewood Suites by Hilton - Journal Center Albuquerque north. New hotel (2005). Upscale extended-stay studios & 1-bedroom apartment suites. Map</p>
<p>Residence Inn by Marriott - Albuquerque Airport Albuquerque south. New hotel (2008). 100% nonsmoking. Upscale extended-stay studios, 1 & 2-bedroom/2-bath apartment suites with full kitchens & free wired/wireless HSIA. Free hot breakfast buffet & evening social hour. Onsite: fitness room & whirlpool. Weekly/monthly discount rates available online. Map</p>
<p>Candlewood Suites - Albuquerque North Mid-priced studios & 1-bedroom suites with full kitchen, executive-sized desk, high-speed internet access, CD/DVD player & recliner. Fitness room. Complimentary laundry facilities and DVD library. Extended stay discounts available. Map</p>
<p>Extended Stay Deluxe - Albuquerque/Rio Rancho Blvd In Albuquerque's north suburbs. Ideal for business travel, relocation or vacation. Roomy studio suites with kitchen & living areas, abundant desk space & wireless high-speed Internet. Enjoy on-site laundry facility, fitness room & outdoor pool. Book direct for guaranteed lowest rates. Map</p>
<p>TownePlace Suites by Marriott - ABQ Airport Built in 2003. 100% nonsmoking. Mid-priced extended-stay studios, 1 & 2-bedroom suites with fully-equipped kitchens, sofabed, housekeeping & free high-speed Internet. Free airport shuttle. Laundry facilities, swimming pool & exercise room onsite. Week/month discount rates available online. Pets welcome. Map</p>
<p>Extended StayAmerica - Albuquerque Airport Extended Stay America Economy Studios in south Albuquerque. Designed specifically for long-term travelers. Studios feature fully-equipped kitchens, separate workspace, WiFi Internet, voicemail, cable TV & on-site laundry facility. Book online for our guaranteed lowest rate. Map</p>

TRANSPORTATION

Sunport Car Rental Center – Car rental customer service counters and ready/return lots are located at the ABQ Airport, Sunport Car Rental Center, 3400 University SE.

	<p><u>Alamo Rent A Car</u> Telephone: (800) GO-ALAMO</p>	<p>The primary renter of the vehicle must be 25 years of age. Minimum age is 21 for special contracts (rates may be higher). Max rental period = 28 days. A valid driver's license from the customer's country of residence is required and must be presented at time of rental. Permits unaccepted.</p>
	<p><u>Avis (Auto Rental)</u> Telephone: (800) 331-1212</p>	<p>Avis requires that each customer and additional driver meet the 21yr minimum age requirement, present a valid driver's license and an acceptable driving record, and present an Avis-honored charge card or cash rental qualification at the time of rental.</p>
	<p><u>Budget Rent A Car of NM Inc.</u> Telephone: (800) 527-0700</p>	<p>All renters must present a valid driver's license. Renters 21-24yrs must present a valid, acceptable credit card (debit cards are not permitted) and a valid driver's license (subject to screening of your driving record).</p>
	<p><u>Enterprise Rent A Car</u> Telephone: (800) 736-8222</p>	<p>All drivers must have a valid U.S., Canadian, or foreign driver's license. An International Driver's Permit is required with all non-English foreign licenses. All drivers must have a major credit card in their own name and be at least 21 years of age or older. Drivers 21-24 subject to additional fees.</p>
	<p><u>Hertz Corporation</u> Telephone: (800) 654-3131</p>	<p>The minimum age is 25 without an additional Age Differential Charge, and 21 with an additional Age Differential Charge.</p>
	<p><u>National Rent A Car</u> Telephone: (800) CAR-RENT</p>	<p>The primary renter of the vehicle must be 25 years of age. Min age is 21 for special contracts (rates may be higher). Max rental period = 28 days. A valid driver's license from the customer's country of residence is required and must be presented at time of rental. Permits unaccepted.</p>
	<p><u>Rent-A-Wreck</u> Telephone: (800) 247-9556</p>	<p>Rent-A-Wreck requires a valid state-issued drivers license. Drivers with international licenses are welcome. A refundable deposit will be required at pickup. Minimum age is 18 with credit card and higher rates.</p>
	<p><u>Thrifty Car Rental</u> Telephone: (800) 847-4389</p>	<p>Thrifty requires all drivers to satisfy our minimum age requirements (21+), have a valid driver's license, and pay an additional driver fee. Drivers 21-24yrs may be subject to additional charges.</p>

Local Bus Service

[ABQ Ride](#)

Telephone: (505) 243-RIDE or (505) 243-7433

Albuquerque's public transit system. Call or [visit website](#) for bus service times and routes.

Taxi Services

[Albuquerque Cab Company](#)

Telephone: (505) 883-4888

Yellow Cab Company

Telephone: (505) 247-8888

Tour & Charter Services

[Casino Tours \(American Tours\)](#)

Telephone: (505) 342-2303

[Custom Tours by Clarice](#)

Telephone: (505) 438-7116

[Herrera Coaches](#)

Telephone: (505) 242-1108

[Morning Star Express](#)

Telephone: (575) 377-2507

[New MexiTour](#)

Telephone: (505) 771-3739

Paradise Tours

Telephone: (505) 877-0697

Roadrunner Shuttle Services

Telephone: (505) 424-3367

TRANSPORTATION

Tours of the Southwest

Telephone: (505) 982-0623

Twin Hearts Express

Telephone: 1-800-654-9456 or (505) 751-1201

Round trip shuttle service to Santa Fe, Espanola, Taos, Taos Ski Valley, Red River, Rio Costilla, Questa and all of Southern Colorado. Four departures daily and tours.

Train Services

[Amtrak](#)

Telephone: (800) USA-RAIL or (800) 872-7245

[New Mexico Rail Runner](#)

Telephone: 1-505-245-RAIL(7245)

Train service from Santa Fe to Albuquerque and south to Belen. Shuttle service between Sunport and Rail Runner stations provided by [ABQ Ride](#).

