

# City of San Antonio Career Exploration



## Girl Scout Cadettes

Girl Scouts of Southwest Texas  
811 North Coker Loop  
San Antonio, Texas 78216  
(210) 349- 2404 or 1-800-580-7247  
[www.girlscouts-swtx.org](http://www.girlscouts-swtx.org)

To learn more about the City of San Antonio,  
please visit:  
<https://www.sanantonio.gov>

— City of San Antonio —

# MISSION STATEMENT

...

We deliver quality City services and commit to achieve San Antonio's vision of prosperity for our diverse, vibrant, and historic community.

# CORE VALUES

...

## TEAMWORK

*We work together to make San Antonio better.*

## INTEGRITY

*We model ethical behavior.*

## INNOVATION

*We are driven by continuous improvement.*

## PROFESSIONALISM

*We are qualified, skilled and committed.*

## Steps to Earn the City of San Antonio -Career Exploration

Girl Scouts is the premier girl leadership development program - girls have fun with a purpose! All activities are girl-led and girls should decide what activities to complete when earning a Business Patch Initiative (BPI) patch. In the spirit of Girl Scouting, girls may choose to participate in activities that are not listed in the booklets and/or supplements. If girls complete the minimum required number of activities based on the theme of the BPI, they have earned the BPI patch.

### Step One:

1. Read through the Activities
2. Think about what you would like to do
3. Choose 3 out of the 4 Units
4. Complete 2 Activities from the 3 Units you chose

### Step Two:

1. Complete the [Business Patch Initiative \(BPI\) Evaluation](#)
2. For more information, contact:  
Girl Scouts of Southwest Texas  
ATTENTION: Program  
Phone: (210) 319- 5775  
Toll Free: 1-800-580-7247  
Fax: (210) 349- 2666



### Step Three:

Receive your City of San Antonio – Career Exploration Patch!

## The Girl Scout Leadership Experience

Girls at every level of Girl Scouting participate in the “*leadership experience.*” A *leadership experience* is an exciting way of working with girls in a series of themed activities focused on building leadership skills. By enlisting the three keys to leadership (*Discover, Connect, and Take Action*) girls learn that they can take the lead to make a difference in their community and the world. The three keys are at the heart of the Girl Scout philosophy of leadership:

### Discover

Girls understand themselves and their values and use their knowledge and skills to explore the world.

### Connect

Girls care about, inspire, and team with others locally and globally.

### Take Action

Girls act to make the world a better place.

It’s not just “what” girls do, but “how.” When girls are engaged that creates a high-quality Girl Scout leadership experience. All Girl Scout experiences are built on three processes (*Girl-Led, Cooperative Learning, and Learning by Doing*) that make Girl Scouting different from school and other extra-curricular activities. When used together, these processes ensure the quality and promote the fun and friendship so integral to Girl Scouting.

### Girl-Led

Girls play an active role in the planning and implementation of activities while adults provide age-appropriate facilitation, ensuring that planning, organization, set-up, and evaluation of all activities are done jointly with the girls.

### Cooperative Learning

All members of a group work together towards a common goal that can only be accomplished with the help of others.

### Learn by Doing

A “hands-on” learning process that engages girls in cycles of action and reflection resulting in deeper understanding of concepts and mastery of practical skills.

When Discover, Connect, and Take Action activities are girl-led and involve learning by doing and cooperative learning, girls achieve the desired and expected leadership outcomes ultimately resulting in Girl Scouting achieving its mission: **Building girls of courage, confidence and character, who make the world a better place.**

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# Local Government

## The Judge Keeps It Fair and Impartial

The Judge presides over the courtroom, hears evidence, makes decisions on motions, instructs juries and makes rulings. The judge is responsible for assuring the law is followed and carried out in every case. Judges read through court documents and may research legal issues. You may one day go to law school and eventually be a municipal court judge.

This activity will be a great one for camp or a weekend.

Materials: Number of materials is contingent on the desires and number of girls participating and is only limited by the girls' imagination and location.

For this activity you can conduct a mock trial. Adapt the "The Big Bad Wolf vs. The Three Little Pigs" (link included below) however works for you and your troop.

You will need to decide who will play which role in the trial. You could invite a law student, lawyer or even a judge to be the judge in your trial. It is up to you how detailed you want your mock trial to be.

Suggestions on how to set up the "courtroom" can be found here.

Roles of Judge and Jury <https://www.youtube.com/watch?v=TUvG2CzXfc0>

The Big Bad Wolf v. The Three Little Pigs

<https://www.utcourts.gov/general/edresources/docs/BigBadWolfVThreeLittlePigs.pdf>

It is 27 pages of background, definitions, instructions and a suggested script.

### For girls that want to do more:

- Visit a courtroom
- Interview a judge



## Municipal Matters: Keeping the City Running

We are a nation of laws and we have lots of them! City, county, state and federal laws require city officials to do (or not do) something. The municipal or city attorney is the person that analyzes all new legislation and figures how it will impact life or governing in San Antonio. The City Attorney is the chief legal advisor to the City Council, City management, and all City departments.

The Office of the City Attorney is divided into different divisions:

- Commercial Division
- Litigation Division
- Prosecution Division
- Regulatory Division

The Commercial Division of the City Attorney's Office provides legal services to all City departments requiring expertise in a variety of legal fields including real estate, construction, economic development, finance, budget, hospitality, information technology, employment, entertainment and procurement.

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)

If you are interested in business or law, you might work in the Commercial Division of the City Attorney's Office. The city has contracts with many different businesses throughout the city. Some examples are garbage collection, rental property, cleaning services and food service. The city awards contracts to businesses for specific projects such as road construction or repair.

The Procurement Section reviews all proposed contracts with the city. They make sure that all contracts are awarded fairly and for the best price.

Watch the video and visit the web site.

What is a Contract (5:11) <https://www.youtube.com/watch?v=JQNeRik2KpE>

Explains how we enter into contracts every day.

Finance Department – Purchasing Division – Bidding and Contracting Opportunities

<https://www.sanantonio.gov/purchasing/biddingcontract/opportunities>.

On this web site you can see some of the contracts that are available for people to bid on. The city uses a bidding process. The contractor reads what the city wants done and then the contractor figures out how much money it will take to fulfill the contract. The city reviews it and picks the one they think will do the best job but cost the least. Once the contract is awarded, the municipal attorneys write the contract and make sure that everything is fair and legal.

**For girls who want to do more:** Interview a contract lawyer.

## City – County – State- Know and Explore Your Government

Texas is divided into counties and within these counties are cities. Understanding the difference between state, county and city is important to all citizens.

San Antonio has a Council-Manager form of city government. The City Council is composed of 10 members elected by districts and a Mayor elected at-large. All serve up to four two-year terms. The City Council sets policies and the City Manager is the city's chief executive officer.

For this activity, you will explore the different parts of San Antonio city government. Watch the videos below

What's the difference between your city, state and county government? (3 minutes 51 seconds) <https://www.youtube.com/watch?v=K7us7syDw88&t=7s>

Introduction to Local Governments in Texas (7 minutes 35 seconds)  
<https://www.youtube.com/watch?v=TtoS3o-powM>

There are many career opportunities in the San Antonio government. Visit <https://www.sanantonio.gov/> and select a City Department. Look at the Department's web site. Tell your troop or family what you have learned.

### For girls who want to do more:

Each department has a point of contact. There will be an email address. Write an email to the person that works in the department you are interested. You might ask them what they like about their job and what they studied to get their job.



## **Public Health & Safety**

## Healthy Teeth. Healthy Person. Dental Hygienist

Dental hygienists or dental assistants clean teeth, examine patients for signs of oral diseases such as gingivitis and provide other preventive dental care. They also educate patients about oral health. If you like biology and medicine, you may want to work as a dental hygienist for the San Antonio Metropolitan Health District.

For this activity, you have the opportunity to learn and explore oral health and being a dental hygienist. Oral health is essential to general health and well-being at every stage of life. A healthy mouth enables not only nutrition of the physical body, but also enhances social interaction and promotes self-esteem and feelings of well-being. The mouth serves as a “window” to the rest of the body, providing signals of general health disorders. Oral conditions have an impact on overall health and disease. Bacteria from the mouth can cause infection in other parts of the body when the immune system has been compromised by disease or medical treatments.

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer or smart phone (to view videos)

Watch the two videos (one is on oral health and the second is about being a dental hygienist) and take the quiz to learn how much you know about teeth.

Rock Star Smiles - Video

<https://www.youtube.com/watch?v=glqmxCzzCZE> (11 minutes, 25 seconds)

A Day In The Life Of A Dental Assistant

<https://www.youtube.com/watch?v=Kd0vC3beboo> (5 minutes and 12 seconds)

Metropolitan Health District Dental Hygienists Educating Elementary students about brushing their teeth.

Take the Teeth Quiz to find out how much you know about teeth

<https://kidshealth.org/en/kids/teethquiz.html>

### For girls that want to do more:

Interview a dental hygienists and report about the interview to your family or troop. Use this topic as part of your Take Action Project.

## Keeping our Parks and Recreation Areas Safe

Are you interested in law enforcement and safety? You may want to consider a career with the San Antonio Park Police. San Antonio Park Police offers a diverse opportunity of assignments. Officers can be assigned to the Riverwalk Patrol Section, District Patrol Section, Bike/ATV Unit, Public/Community Relations, Covert Operations, Training Academy, San Antonio City Hall, or one of several administrative positions.

San Antonio Park Police protect people while they are out enjoying nature and the City's parks. The San Antonio Park Police operates a 13-week advanced academy for all newly hired Park Police Officers.

The Academy covers:

- Report Writing,
- Public/Community Relations,
- Penal Law,
- Police Tactics,
- High Performance Driving, and
- State mandated courses such as:
  - o Cultural Diversity,
  - o Crises Intervention Training, and
  - o Advanced Firearms Training and Qualification

For this activity, learn about how to be safe in the city parks while enjoying the many trails scattered throughout the city of San Antonio.

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer or smart phone (to view videos)

Watch at least two videos:

JOW - March 19, 2018 - Park Police Officer (4 minutes 6 seconds) Interview with a San Antonio Park Police Officer: <https://www.youtube.com/watch?v=wBhb9E6TKKE>

Play It Safe San Antonio (30 seconds)

[https://www.youtube.com/watch?v=CtBL8Ar7yDw&list=UUMfOl3bS3ju98J\\_FXWsdKMw&index=2](https://www.youtube.com/watch?v=CtBL8Ar7yDw&list=UUMfOl3bS3ju98J_FXWsdKMw&index=2)

SA Parks and Recreation Trail Etiquette (59 seconds):

[https://www.youtube.com/watch?v=B1qpcbgcEwo&list=UUMfOl3bS3ju98J\\_FXWsdKMw&index=2](https://www.youtube.com/watch?v=B1qpcbgcEwo&list=UUMfOl3bS3ju98J_FXWsdKMw&index=2)

United States Park Police – A Service of Excellence (4 minutes, 1 second):

<https://www.youtube.com/watch?v=BLPtL37Ubs8>

### For girls that want to do more:

Interview a park police officer to learn more about being a park police officer.

## Firefighters

San Antonio firefighters don't just respond to fires. Firefighters respond to medical emergencies, motor vehicle crashes, aircraft crashes, trench cave-ins, building collapses, hazardous materials incidents, civil disturbances, technical rescues, explosions, tornadoes, earthquakes and terrorist attacks.

Firefighters are trained in emergency medical treatment, fire suppression and various rescue techniques. If you are interested in becoming a firefighter, look at the web site below. San Antonio Fire Department Training:

<https://www.sanantonio.gov/SAFD/About/Divisions/Training>

Hundreds Try to Become a S.A. Firefighter: <https://www.youtube.com/watch?v=GjnkqkqM--s>

For this activity, we will learn how to prevent deaths from fires. You could do this activity as your Take Action Project.

Did you know that approximately 50% of home fire deaths occur in homes without smoke alarms? San Antonio Fire Department (SAFD) believes smoke detectors are a key factor in preventing fire-related deaths. The SAFD has a Smoke Detector Program that offers free smoke detectors, including installation, to citizens living in single family homes in San Antonio. So far, SAFD has installed tens of thousands of smoke detectors throughout San Antonio, saving countless lives.

Arrange a tour for your troop to visit a fire station or contact SAFD's Community Safety & Education Division at 210.207.8422 or send a request on <https://www.sanantonio.gov/SAFD/Community-Safety-and-Education/Contact-Community-Safety-and-Education?sendto=ContactCSE>

### For girls that want to do more:

- Interview firefighters at your local fire station and ask them about how you can educate people about fire prevention.
- Research fire prevention techniques and safety. The U.S. Fire Administration is a good resource: <https://www.usfa.fema.gov/prevention/>
- Educate your family, troop and community.

# Community Services

## Sheltering the Homeless

The City of San Antonio's Department of Human Services (DHS) supports the community's efforts to end homelessness through the South Alamo Regional Alliance to End Homelessness Continuum of Care, support and coordination with Haven for Hope, and contracts with community based homeless services providers.

Look at the web site below and see all the organizations that work to help homeless individuals and families find safe housing.

<https://www.sanantonio.gov/humanservices/HomelessServices#173731843-homeless-services>

Haven for Hope, one of San Antonio's local homeless shelters, provides food, clothing support services such as job training, medical, dental, and child daycare services for Haven for Hope members, prospective members and the surrounding community. Prospects Courtyard on the Haven for Hope campus is a safe outdoor sleeping space where guests receive meals, communal showers, laundry, basic medical and mental health care, and other basic services. Prospects Courtyard is operated by the Center for Hope.

Research this web site to find all the services available. <https://www.havenforhope.org/>  
Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)

For this activity we will explore opportunities to lend a helping hand to the homeless in your own community.

Haven For Hope needs volunteers! Arrange a time that you and your troop can do a service project on the Haven for Hope campus. Haven for Hope needs help with washing sleep mats, sorting donations in the donation center, painting, landscaping and other campus beautification projects. You are limited only by your imagination. Organize a game day, arts and crafts project, or picnic.

You can do your Take Action project at Haven For Hope

The first thing you may want to do is take an education tour so you can figure out what needs there are at Haven for Hope.

<https://www.havenforhope.org/downloads/volunteer/Haven%20for%20Hope%20Educationa%20Tour%20Request.pdf>

After you go on your tour, decide what you can do.

<https://www.havenforhope.org/downloads/volunteer/GroupVolunteerChecklist%2020180516.pdf>



## Vet Tech: Helping Pets and Their Families

If you ever thought you might want to work with animals, you may want to consider becoming a veterinary technician and work at the City of San Antonio Animal Care Services.

The City of San Antonio Animal Care Services (ACS) is the largest, open admission, municipal shelter in South Texas. Serving San Antonio residents, ACS resides on a 14-acre campus boasting a variety of programs and services aimed at encouraging responsible pet ownership and compliance in our community. Lots of opportunities exist at ACS!

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)

For this activity we will explore the Veterinary Technicians career.

A Day in the Life of a Veterinary Technician <https://www.youtube.com/watch?v=-rBdnfXzZEw>  
(2 minutes 31 seconds)

The best way to learn about a career is to get involved and volunteer. Volunteers must be 10 years and older.

Volunteer - Get Involved!

<https://www.sanantonio.gov/Animal-Care/How-You-Can-Help/Volunteer-Get-Involved>

### For girls that want to do more:

- Interview or shadow a vet tech and then report back to your family and troop what you learned.
- Organize a group volunteer activity for your troop, family, church group or other group you belong to.

## Urban Wildlife Biologist: Bringing Nature to the City

San Antonio has many parks and natural areas throughout the city. Natural areas are important to people and help us to relax. These parks and natural areas are also important to the environmental health of San Antonio. Have you ever considered being a wildlife biologist? Did you think you would have to live far from the city? San Antonio has urban wildlife biologists who provide the City with professional planning guidance, management recommendations, research and education associated with wildlife, and habitat and natural resource management.

Basically, they help the city plan how people and wildlife can live together.

San Antonio Gardens and Natural Areas:

<https://www.sanantonio.gov/ParksAndRec/Parks-Facilities/All-Parks-Facilities/Gardens-Natural-Areas>

Natural Areas Map: <http://fosana.org/map/>

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)

For this activity you can explore what a Wildlife Biologist does in the city.

Watch the video: Big City Biologist <https://youtu.be/IHj07Gd5gSo> (8 minutes 6 seconds).

Walk around your neighborhood or visit your neighborhood park. Find evidence of urban wilderness.

### For girls that want to do more:

- Interview a wildlife biologist.
- Attend a program led by a wildlife biologist at one of the natural areas or parks.
- Explore how to be a Master Naturalist: <https://txmn.org/alamo/join-the-alamo-chapter/>

## **Cultural Heritage & the Arts**

## Museums: Windows into San Antonio

Museums are important to cities. San Antonio museums showcase the uniqueness of the city by preserving artifacts important to the history and identity of the city. Museums are a place of learning about many things: History, Art, Science, Language, Philosophy and a variety of other topics. Museums offer citizens an opportunity for lifelong learning.

The City of San Antonio does not own any museums, but your city government supports museums through grants because they understand how important museums are to San Antonio citizens. Many departments in the city government work closely in promoting museums to citizens and tourists. San Antonio museums attract visitors to San Antonio, and this adds to the economy.

For this activity, we will learn about why museums are important to all of us and the different museums to visit in San Antonio.

Watch at least two of the videos listed below:

Why Do We Have Museums? - J. V. Maranto

<https://www.youtube.com/watch?v=MHo928fd2wE> ( 5 minutes 43 seconds)

Seeing the Past as Present: Why Museums Matter | Colleen Leth | TEDxOxBridge

<https://www.youtube.com/watch?v=SehKVHo601c>

(8 minutes 16 seconds)

The Role of Museums in Today's Societies

<https://www.youtube.com/watch?v=PfQxeHVID1E>

(2 minutes 35 seconds)

San Antonio Things to Do: Arts and Culture <https://www.visitsanantonio.com/category/arts-culture/>

This web site lists all the museums in San Antonio. Many San Antonio museums have days where entrance fees are waived on certain days and it is free to visit.

Pick a museum from the list. Look at the web site to see what exhibits they have that might be interesting. Find out what the entrance fee is and if they have a day that is free. Many museums have a lot of information on their web site. For this activity, make your own list of exhibits that you would be interested in seeing. Discuss your list with the rest of the troop and plan a future fieldtrip. If you are unable to visit in person, schedule a time to do a virtual tour as many museums are accessible through the internet.

## Department of Arts and Culture

Are you someone who appreciates music and art? Would you like to be part of that field but are not an artist or singer? You might consider having a career in the City of San Antonio and working in the Department of Arts and Culture.

The Department of Arts & Culture advocates for the arts in San Antonio through its relationships with local City staff, other City departments, elected officials, and local nonprofits as well as the community at large. In addition, the Department works with advocacy organizations at the state and national levels, including local non-profit organizations throughout the city to sponsor art projects.

If you are an artist, the Department of Arts & Culture advertises opportunities for artists.

[https://bluestarcontemporary.org/open-call/?utm\\_source=Blue+Star+Contemporary+Newsletter&utm\\_campaign=635c7da07a-EMAIL\\_CAMPAIGN\\_2018\\_03\\_07\\_COPY\\_01&utm\\_medium=email&utm\\_term=0\\_4ef7227d75-635c7da07a-206895613](https://bluestarcontemporary.org/open-call/?utm_source=Blue+Star+Contemporary+Newsletter&utm_campaign=635c7da07a-EMAIL_CAMPAIGN_2018_03_07_COPY_01&utm_medium=email&utm_term=0_4ef7227d75-635c7da07a-206895613)

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)
- ✓ Transportation

For this activity we will explore the art located throughout San Antonio.

Public Art Works Map

<https://www.getcreativesanantonio.com/Public-Art/Public-Artworks-Map>

Look at the map and find artwork located near your home. Visit and take a picture. If you cannot visit any artwork, you can look at the art on the map.

### **For those that want to do more:**

Attend one of the Events held throughout the city. San Antonio Creative Events

<https://events.getcreativesanantonio.com/event/>

## **World Heritage: San Antonio Heritage**

### *Are you interested in the tourism industry and the history and culture of South-Central Texas?*

One day you may want to work in the World Heritage Office. Tourism is an exciting industry and San Antonio has a lot of opportunities for tourists. The tourism industry brings in visitors that spend money eating in restaurants, staying in hotels, riding in taxis, buying souvenirs and paying to visit museums, theaters and many other places in San Antonio. This helps business owners and the city of San Antonio because these tourists spend money to buy goods and services from the businesses and pay hotel and sales taxes to the city.

The World Heritage Office promotes the San Antonio landmarks by maximizing the economic impact of the World Heritage status designation and enhancing the experience for visitors and residents through the implementation of the World Heritage Work Plan and related projects within the World Heritage Buffer Zone.

#### **Mission Marquee Plaza:**

The Mission Marquee Plaza opened in 2014. The facility is located on the Southside of San Antonio. The area is rich in history and culture and is considered to be one of San Antonio's iconic gems. For generations, many families locally and from the South-Central Texas region gathered to watch movies when it served as a drive-in theater.

Today, Mission Marquee, with its large stage and screen, serves the community as a meeting place to enjoy various outdoor activities throughout the year including festivals, film screenings, arts & culture events, open-air markets and more.

#### **Spanish Governor's Palace:**

This National Historic Landmark represents the last visual remnants of the Presidio San Antonio de Béjar. Traditionally known as the Spanish Governor's Palace, it was the original comandancia (residence and working office) for the captains of the military garrison from 1722 until the early 1800s.

## **World Heritage: San Antonio Heritage (cont'd)**

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)
- ✓ Transportation

For this activity we will learn about how the San Antonio World Heritage Department promotes and protects San Antonio heritage.

Choose one of these web sites and explore it. Go on a virtual tour. Discover the history, cultural events and fun entertainment. Go visit with your family or troop.

Mission Marquee Plaza <https://www.missionmarquee.com/>

The Spanish Governor's Palace <https://www.spanishgovernorspalace.org/>

After looking at one of the web sites, consider how these places would benefit the tourism industry? Discuss it with your troop or family.

### **For girls that want to do more: (one or both)**

- Interview someone from the World Heritage Office
- Interview someone in the tourism industry
- Ask how San Antonio's historic sites help the San Antonio economy?

## **City Infrastructure & Development**



## City Planners: SATomorrow

The mission of the San Antonio Planning Department is to work with citizens to guide growth and development, protect our history and resources, and promote an equitable and sustainable city accessible to all San Antonians.

The San Antonio Planning Department, uses the vision citizens have given them through SA Tomorrow. SATomorrow is a document that establishes a vision of a safe, sustainable, walkable, and equitable city which has access to jobs, housing and a variety of amenities and services for people living, working and visiting San Antonio.

The San Antonio Planning Department wants citizen input. SATomorrow  
<https://www.sanantonio.gov/Planning/PlanningUrbanDesign/ComprehensivePlan>

For this activity, you will explore what a city planner's work is like.

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer or smart phone (to view videos)
- ✓ Poster board
- ✓ Markers, paints, brushes
- ✓ Magazine pictures for your city

City Planner | What I do & how much I make | Part 1 | Khan Academy

<https://www.youtube.com/watch?v=NFSZC-Ljz8M>

I Wanna Be a Town Planner · A Day In The Life Of A Town Planner

<https://www.youtube.com/watch?v=8QMxaKXsHOg>

Watch the videos and then plan either individually or as a group, plan the perfect city.

How Can We Make The Perfect City?

<https://www.youtube.com/watch?v=OGwINxSIFMs>



### For girls that want to do more:

- o Interview a city planner to find out more about their job and tell your fellow Girl Scouts what you learned.
- o Attend one of the SA Tomorrow planning events This web site will tell you where in San Antonio they are being held. <https://www.sanantonio.gov/Planning/Events>

## Keeping San Antonio International Airport Running

Airports are smaller versions of cities. Restaurants, clothing stores, fire, police, and medical staff, custodians, transportation and communication technicians all exist at the airport. Airport managers have to work with airline companies and surrounding communities.

The airport manager's job is to keep the airport running as smoothly as possible. Airport managers sign leases with airlines and concessionaires. They forecast needs and plan for the future growth of their airport. They are responsible for large budgets, prepare for emergencies and deal with foul weather.

Airport managers deal with safety rules and security issues designed to prevent terrorism. It is important to understand environmental and ecological matters. Storm water management, noise pollution and air quality are all areas that an airport manager has to understand and address while running an airport.

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)

For this activity we will explore the San Antonio International Airport

Watch the video Introducing the Professional Airport Manager  
[https://www.youtube.com/watch?v=a61qIHdt\\_5Q](https://www.youtube.com/watch?v=a61qIHdt_5Q) (3 minutes, 59 minutes)

You can do one of the following activities individually or as a troop.

Go to the San Antonio International Airport web site and look at all the different departments that exist at the airport. As a troop, each girl could pick a department and then tell about it at a meeting. San Antonio International Airport (SAT)

<https://www.sanantonio.gov/SAT?nomo=1>

Research airport manager jobs:

Airport Security Manager

<https://www.governmentjobs.com/careers/sanantoniotx/classspecs/828472?keywords=airport%20&pagetype=classSpecifications>

Environmental Stewardship Manager <https://www.sanantonio.gov/Aviation/Environmental-Stewardship>

### For girls that want to do more:

Email one of the managers and ask if you could interview them about their job or shadow them for a day.

## Telecommunications Engineer: Bringing the World Closer

One day you may be a City of San Antonio Telecommunications Engineer!

Telecommunications engineering combines electrical and computer engineering to support and enhance telecommunication systems. A telecommunication engineer is responsible for designing and overseeing the installation of telecommunications equipment in facilities, such as complex electronic switching systems, telephone service, optical fiber cabling, IP networks, and microwave transmission systems. Telecommunication engineering also overlaps with broadcast engineering.

The Telephone Network:

The public switched telephone network is the worldwide telephone system that handles voice-oriented telephone calls. Nearly the entire telephone network today uses digital technology. The only exception is your home phone, which often is analog.

Materials: Number of materials is contingent on the desires and number of girls participating.

- ✓ Computer, tablet or phone (to access internet)

For this activity we will explore the Telecommunications Engineering career field and develop an idea for a better cell phone.

Watch the video

Telecommunications Engineer <https://www.youtube.com/watch?v=w4x6yjeb41Q>  
(3 minutes, 46 seconds).

Suggested books:

*The Telephone: Wiring America* by John Murphy

*The Big Idea: How Breakthroughs of the past shape the future.* National Geographic  
Engineering by Susan E. Hamen

Look at some of the books suggested, research on the internet or ask your librarian to help you find out information about cell phones. Engineers think about how to make things better. How can you make a cell phone better? Think about your cell phone. What are some of the negative things you hear can occur as a result of cell phone use?

Here are three examples:

- ❖ Blurred Vision
- ❖ Sleep Disruption
- ❖ Neck and Back Pain

Don't just dismiss them as not true or important. Find out why people might get blurred vision, neck pain or have sleep problems from cell phone use. Pick one that interests you. Brainstorm ideas with your troop or family on how you can change or lessen this negative effect.

**For girls that want to do more:**

- Present your idea at your school or to other Girl Scouts.
- Use it at your school science fair.
- Find an engineering firm and present your idea to them.

**YOU DID IT!**



**CONGRATULATIONS!**

# End of Booklet



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