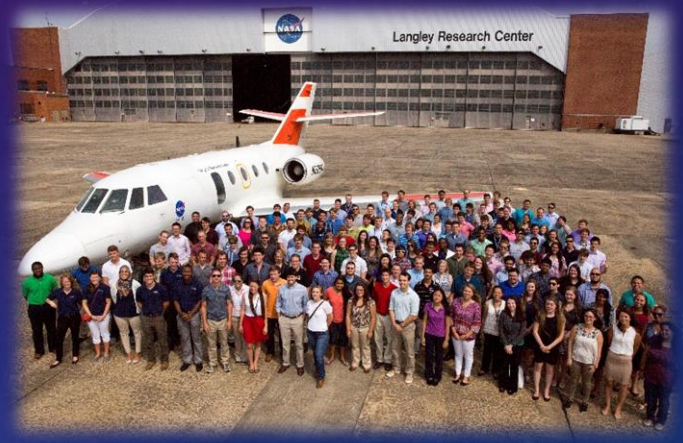
Best Practices for Completing a NASA Internship Application



Langley Research Center

Program Overview

About the NASA Internship Program at Langley Research Center

Must be U.S. Citizen

At least 16 years old and at least a HS sophomore when internship begins

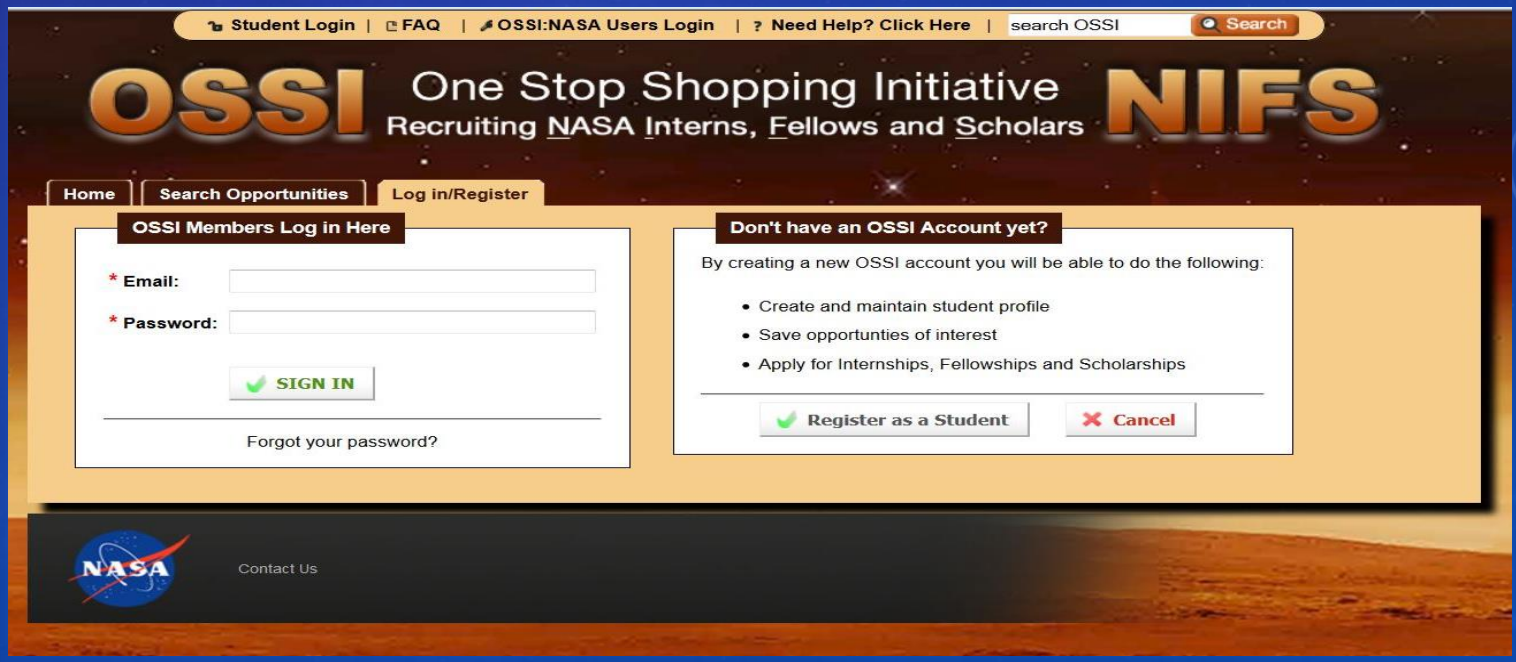
At least a 3.0 GPA

Enrolled full-time in a degree-seeking, accredited program

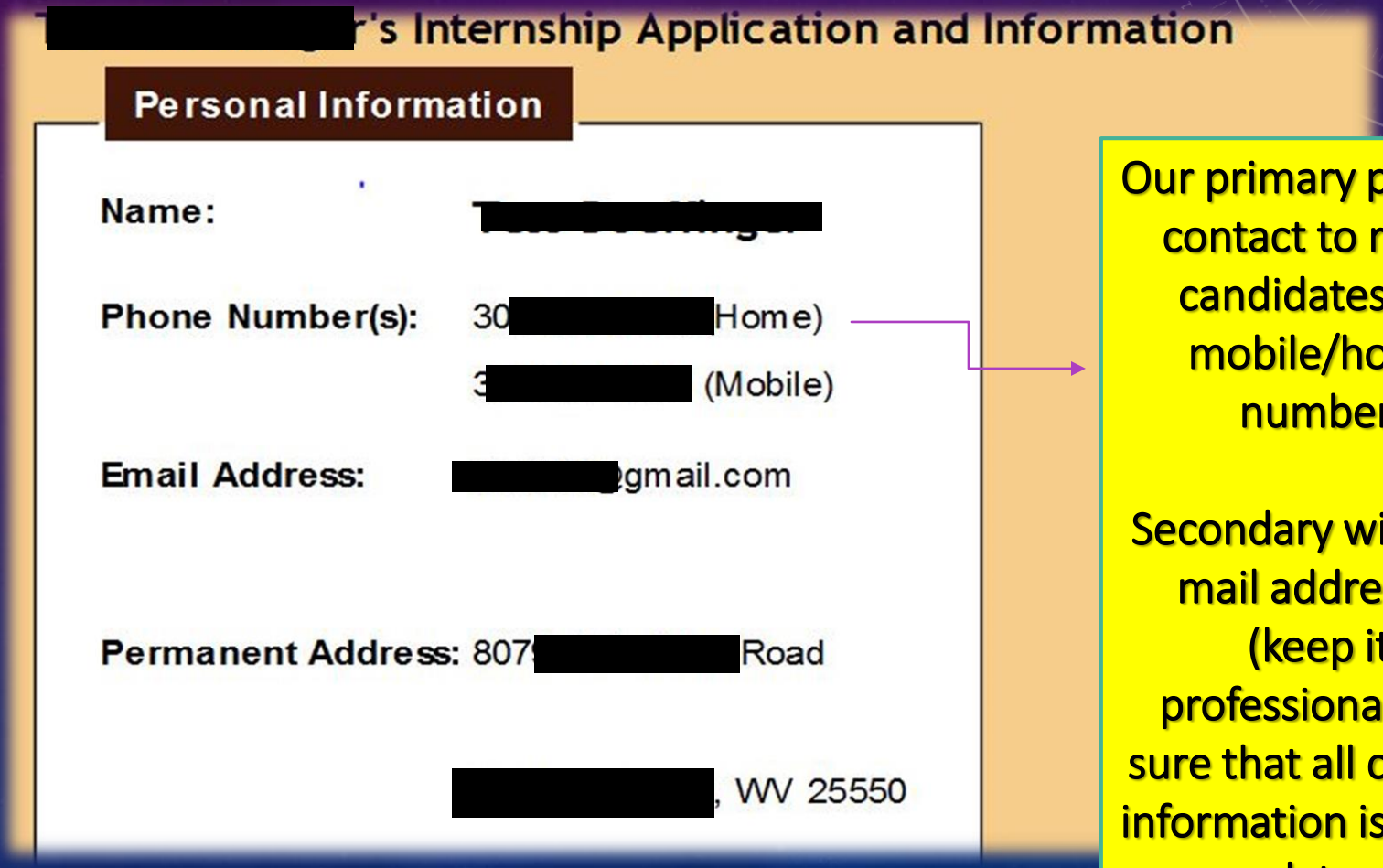
- Paid, hands-on experiences with scientists, researchers, engineers and mission support teams
- Open to undergraduate and graduate students year-round for the Fall, Spring and Summer sessions
- High school students are invited to apply for an 8-week or 10 week Summer internship opportunity
- The program receives nearly 10,000 applicants per year and hosts 150-200 interns annually

Application Process

1. Visit intern.nasa.gov
2. Click what applies to you: Pre-College, Undergraduate or Graduate
3. Log-in/Register
4. Set up a student profile
5. Submit an application
6. Search opportunities and apply for up to 15!



Internship Application: Contact Info


[redacted]'s Internship Application and Information

Personal Information

Name: [redacted]

Phone Number(s): 30[redacted]Home)

3[redacted] (Mobile)

Email Address: [redacted]gmail.com

Permanent Address: 807[redacted]Road

[redacted], WV 25550

Our primary point of contact to reach candidates is a mobile/home number.

Secondary will be e-mail addresses (keep it professional). Be sure that all contact information is up-to-date.

Internship Application: Educational Info

Educational Information

Current College/University

College/University:	Student State University
Transcript:	View Transcript
Academic level when the opportunity begins:	College - Freshman
Degree Being Pursued:	Bachelor's Degree
Academic Discipline/Major 1:	Science - Chemistry
Planned Graduation Date:	06/2018
GPA:	3.5
Courses Currently in Progress:	General Chemistry Seminar
	Introduction to Philosophy
	English Composition II
	Trigonometry
	Fitness and Wellness
	General Chemistry Lab
	General Chemistry Recitation
	General Chemistry Lecture

Make sure MOST RECENT transcripts are uploaded and are readable. Must reflect a 3.0 or above GPA.

We are not able to consider a student who does not have an uploaded, recent transcript.

Internship Application--Recommendation

Letters of Recommendation

Action	Reference Name	Relationship	Email	Phone	Date Requested
View	[redacted]	High School Calculus Teacher	[redacted]	[redacted]	02/16/2015

- Submit letter of recommendation requests to teachers, professor or former employers ASAP.
- An application is not complete until it has at least one letter of recommendation included.
- Mentors usually read these letters to help make a final decision on a candidate!!

Internship Application--Experience

Be specific when describing accomplishments!

Give examples and quantify experiences! i.e. working with a team, testing samples or dealing with revenue!

	Georgia Institute of Technology
	Atlanta, GA
Formal Title:	Research Assistant
Dates of employment:	05/2010 - 08/2010
Duties, Accomplishments and Related Skills:	Conducted experiments on carbon nanoparticles embedded in polymer matrices for insulation applications. Used three point bend testing, environmentally controlled aging, electrical testing. Produced data noise model in Excel. Modified experimental procedure to reduce noise impact. Tested 30% more samples than scheduled by supervisor by improving experimental methods.

Employer:	**Georgia Institute of Technology**
	Atlanta, GA
Formal Title:	Teaching Assistant
Dates of employment:	05/2011 - 05/2011
Duties, Accomplishments and Related Skills:	Delivered review lectures on physics, dynamics, statics, and kinematics in 2D and 3D for 20+ people. Increased regular attendance by 15X; quality of lectures attracted students from other professors. In a signed evaluation, tenured professor stated that "unquestionably, Mr[redacted] has been one of my best teaching assistants in my 33 years of teaching to thousands of engineers."

Employer:	**Tau Beta Pi, The Engineering Honor Society**
	Atlanta, GA
Formal Title:	[redacted]
Dates of employment:	05/2010 - 05/2012
Duties, Accomplishments and	Increased the Chapter's revenue by 230% over 2 years by attracting the most corporate sponsors that the society had ever had in its 25 year lifetime on the Georgia Tech campus. Granted the Outstanding Leadership Award from faculty. Name permanently inscribed

Internship Application--Skills

Be sure to add any skills related to the positions you are interested in.

Skills, Awards, and Educational Activities

Educational, Work Experiences, and/or Extracurricular Activities:

I participated in the VEX competition as part of the robotics team at my university, and worked in programming the sensors of the two competing robots. I was Vice President and founding member of the Robotics and Automation Society (R.A.S) Branch of the Institute of Electrical and Electronics Engineers (I.E.E.E) Student Chapter in my university. Every Friday, I, along with other directive of IEEE, would have workshops on Ardunio and microprocessors. I worked at the Moises Melendez Elementary school located in San Juan, PR as an assistant to the first grade teacher from August 2014 to October 2014; I helped the teacher in supervising and coaching the children. I choose the first grade teacher because they were the group of students that needed the most help and discipline. I worked at University Gardens High School (located in San Juan, PR) as a mathematics tutor from September 2013 through May 2014. There I coached and tutored the high school students in areas of Geometry, Algebra, Pre-Calculus, and Calculus. In 2012, I won the Foundation Alberto Hernandez Scholarship. I was working with a 6 axis Staubi TX on a project for my IEEE student chapter. My goal is to learn as much as I can regarding how to program the Staubli in order to throw workshops on the how to use the robotic arm; I feel my student chapter will benefit from this because the industry uses these machines regularly and as a result will increase their chances of finding job opportunities. I recently took an internship position in NASA Langley Research Center which has delayed my Staubli project. At Langley, I am investigating current research in autonomous CPSs, both inside and outside of NASA, specifically to assess whether the efforts are focused on improving prescribed automation or are moving towards true autonomy where systems comprehensively perceive their environment and make a cognitive decision on action. The duration of the internship is January 20th - May 8th, 2015.

Computer Skills:

I have basic knowledge on C++, MatlaB, Creo Parametric 1 & 2, MathCad, and SolidWorks. I Have advanced knowledge on Excel, Microsoft Word, and Powerpoint.

List all industry-related software/programs that you are familiar with using!

Internship Application

List specific sub-fields that you have experience in.

Tell us (in detail) how an internship with NASA fits your interests and how it will help you with your career goals.

Special Skills:

controls, finite element analysis, linear/nonlinear structural analysis, dynamic motion simulation, mechanical event simulation, design optimization, system design and integration, design for manufacturing, system testing, gesture recognition, machine learning, computer vision, alternative human interface for robotic system

How the student's interests fit with a NASA opportunity:

For as long as I can remember I have wanted to build something that would contribute to our understanding of the places found beyond our own planet. I have always wanted to be part of something larger, of something that would change peoples' view of the universe and all that it contains. In addition, at a young age I found that I loved taking things apart and figuring out how they worked. When I was in high school I attended a presentation by Honda demonstrating the capabilities of their humanoid robot. It amazed me that researchers could design a robot that had so much potential to help society. After this, I became interested in robotics. This led me to major in Mechanical Engineering. During my undergraduate years at UC Berkeley I explored my major more thoroughly and found that many of the projects researchers at NASA worked on combined my interest of robotics with my interest of exploration. Through further investigation I found that many people who worked on these interdisciplinary robotics projects had graduate degrees. This motivated me to pursue my PhD in Mechanical Engineering at Carnegie Mellon University. Through my research I have learned more about robotics. I believe that an internship at NASA would give me an opportunity to work on a project which combined my two interests and allow me to determine if this is the correct career choice. If so, it would be the stepping stool to many more opportunities like this in the future.

Publications:

I have presented my research at several research symposiums/conferences: Determining and Standardizing a Testing Procedure for the Power Rating of Tennis Rackets - 2011 UC LEADS Undergraduate Research Symposium Maximum Power Point Tracking for Photovoltaic Modules Using Boost Power Stages and Extremum Seeking - 2011 UCSD Summer Research Symposium, 2012 UC LEADS Undergraduate Research Symposium Intuitive Control of a Robotic Manipulator via Hand Gestures - 2014 Marshall Space Flight Center Summer Research Poster Session

Questions??

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Be competitive!!!!!!