GE Explorer Series: Engineering Program (Virtual Internship Program)
Posted 9/17/21

This is an interesting (and free!) virtual program that is self-paced. Throughout the program, you will develop practical skills and insights from General Electric (GE). This program will introduce you to a few areas where engineers thrive at GE. Learn about how to optimize a design to meet customer requirements, how to supply a reliable mix of power to the grid, and how to ramp up production for medical equipment during a surge of demand. These samples are just the beginning for the kinds of solutions you can create as an engineer.

Register for the program here: https://www.theforage.com/virtual-internships/prototype/XxtPu3MdxghFHzPGn/Engineering-Program#lp

Info on how to document this experience on a resume or LinkedIn profile can be found at https://cdn.theforage.com/vinternships/companyassets/ay2tsYxaTlf7Nt6z7/AA4Bnq2tJHALwE8cg/162575825519/ForageReferencingPolicy.pdf

Agile Space Industries, Inc.: Engineering Intern
Posted 9/17/21

Candidate must be US Citizen or permanent resident

Overview: An Internship focused on the design, analysis, manufacturing, and test of chemical rocket engines for in-space applications. Positions are available in design, manufacturing, analysis, and test.

Company Background: Located in Durango, Colorado, AGILE designs, builds and tests rocket engines for in-space propulsion. Agile uses a state of the art metal 3D printing process to rapidly design, manufacture and test new engine designs in our one-of-a-kind space simulating test stand. With over a decade of experience testing rocket engines and engineers who’ve worked at industry leaders like SpaceX, NASA, and Rocketdyne, Agile is a great company to learn rocket propulsion design, simulation, and test.

Details: A key element of AGILE’s spacecraft engines are metal 3D printed engine components that take advantage of the design space and materials currently available with additive manufacturing. These injectors require testing for quantitative and qualitative assessment, comparison of that data with hot-fire test data, and evaluation of processes and techniques to improve the features of the injectors. After testing the injectors frequently require design updates to be the most effective. AGILE embraces a
hardware-rich and hot-fire heavy development approach to make new rocket engines on fast timelines and you will play a key role as a member of the propulsion development team.

Agile will provide you with salary, housing stipend, and mentorship in the design, test, and operation of hypergolic thrusters.

**Key Skills:** To be successful in this internship you should have a basic understanding of fluid mechanics, familiarity with Computer Aided Design (Solidworks preferred), and hands-on hardware experience.

Familiarity with rocket test operations, additive manufacturing, welding, machining, injector design, regenerative cooling channel design, or pressure vessel design experience will be considered favorably when reviewing applications.


**Agapito Associates: Lab Technician (part-time position)**

**Posted 9/10/21**

**Description:** This is likely a part-time position, with the potential to become full-time. Agapito Associates Inc. (AAI) is seeking assistance with operations within our rock properties lab in Grand Junction. Our lab accepts samples (primarily in the form of drill core) for testing from domestic and international mine sites at all stages of development. Tests offered at the AAI lab include Uniaxial Compressive Strength (UCS), Triaxial Compressive Strength (TCS), UCS & TCS with elastic properties, Brazilian Tensile Strength, Slake Durability, Point Load Testing, and customized dissolution testing geared toward the mining of evaporite mineral deposits.

**Tasks:** Assist with the selection and preparation of samples; assist with and eventually become proficient at administering testing while strictly adhering to appropriate American Society for Testing & Materials (ASTM) standards; acquire an understanding of relevant geological, geotechnical and rock mechanics theories and applications; perform tasks of a geological nature when needed (i.e., core logging, basic lithology & structure descriptions, etc.); abide by all safety and conduct standards set forth in the AAI Handbook.

**Minimum requirements:** A recent graduate or a student pursuing a degree in an Engineering or Geosciences field. Ability to follow technical instructions. Experience with Microsoft Word and Excel expected. Ability to persevere through menial, long-lasting tasks, to think clearly despite loud noise and machinery, and to highly prioritize precision and accuracy.

**To apply:** Please email ben.haveman@agapito.com (lab manager/geologist) with a resume and a brief statement describing your reason for applying. General questions can be emailed to the same address.

More information about AAI can be found at agapito.com

Interviews will begin the week of September 27.
Western Filament: Manufacturing Engineer (full-time position)
Posted 8/26/21

Western Filament designs, develops, and markets next generation, unique products for the aerospace, military, automotive, medical, and fishing industries. Our 83-year-old company uses a mix of new and tenured manufacturing equipment to supply unique textile products with an unparalleled dedication to quality and customer satisfaction. Our expertise in man-made fibers and their applications allows us to take customers concepts or prototypes to production.

We’re seeking an enthusiastic Manufacturing Engineer who:
- Thrives in a fast moving, challenging, action-oriented environment
- Embraces Lean enterprise and continuous improvement
- Demonstrates innovative thinking and relentless problem-solving
- Enjoys working in a flexible culture environment
- Is driven by a strong work ethic
- Looks forward to a hands-on approach to solving issues
- Constantly asks, “how can I make a positive contribution today”

Position Summary
The Manufacturing Engineer position is responsible for developing, maintaining, and improving production, process methods, support documentation systems, tooling, equipment, and production / facility maintenance. This position works for our Technical Services Manager and closely with Quality Assurance, Regulatory Affairs, Maintenance, and Production Departments to strengthen Western Filament’s processes. If your passion is to provide hands-on production floor support as well as perform critical thinking analytical work, this job may be for you.

Essential Duties and Responsibilities
- This position supports development of manufacturing methods and fixtures, automation process development with third-party vendors, and development of cost / quality improvement efforts for in-house production.
- Support daily manufacturing processes by eliminating downtime, reducing scrap, and improving product quality.
- Write and improve standard operating procedures and standard work.
- Designs and or draws simple fixtures to support the manufacturing, QA, and final product operations.
- Assists with planning and coordinating the company’s preventive and predictive maintenance program including the analysis, tracking, and recommendations for equipment / facility repair and maintenance projects.
- Ability to learn equipment to assist with change over and efficiency improvements.
- Assists with assignment direction for equipment and facility maintenance staff.
- Works closely with local, state, and federal regulatory agencies.
• Assists and supports process improvement initiatives.
• Assists in process investigations of complaints, root cause assessments, nonconformity (NCR), and corrective and preventive action (CAPA) activities.

Education and Other Qualifications
• Bachelor’s degree in Mechanical Engineering, Manufacturing Engineering, Industrial Engineering, or other related field of study.
• Knowledge of Lean Manufacturing or Six Sigma desirable
• Must have skills in Solid Works or AutoCAD (or similar program), Microsoft Word, and Excel at an intermediate to advanced proficiency level.
• Good technical writing skills.
• Must be able to work in a manufacturing environment, lift up to 35 lbs, and stand on concrete floors for extended periods of time.

Benefits
• Salary DOE
• Premium paid health insurance
• Optional Dental and Vision insurance
• 401K with company match
• Premium paid life insurance
• FSA and HSA plans
• Paid vacation
• Paid holidays
• Flexible work schedule (4-tens or 4-nines and 1-four shift)

To apply, please send a resume to Mike Goldsworthy – mikeg@wfilament.com

Learn more about who we are and what we do visit our website at: www.wfilament.com

Mountain Power Solutions: Entry-Level Solar Technician (flexible full-time position)
Posted 8/25/21

Salary: $15-$20/hr, based on experience

Job Type:
This is a full-time position with potentially flexible schedule/hours, depending on the demands of current projects.

Overview:
Mountain Power Solutions is seeking a motivated, hard-working individual to join our team. We
specialize in solar energy and storage solutions, including off-grid systems. We serve the western slope of Colorado and Eastern Utah. Mountain Power’s emphasis is on quality. We are looking for a dedicated, creative, and intelligent individual who is motivated to learn and develop deep expertise in the solar industry.

Description:
The Entry Level Solar Technician will install solar pv, battery storage, and backup generator systems for our residential, commercial, and off-grid clients. This work is physically and intellectually demanding. You will be required to perform installation of solar pv systems on rooftops, ground-mount racking systems, and other similar applications. This includes mounting solar panels, performing basic electrical connections, and basic construction. Job tasks are performed largely outdoors in the desert and mountain environments in western Colorado and the surrounding area. A large portion of our projects take us into the remote rural sections of the region. Willingness and availability to travel to these job locations are an important aspect of the position.

Requirements and Qualifications:
● Must possess valid driver license and clean driving record
● Must be able to represent the company with a professional manner
● Commitment to performing high quality work under all conditions
● Motivation to learn, be challenged, solve problems
● Ability to lift up to 60 pounds, scale ladders, perform other similar physical tasks outdoors
● Ability to assess safety risks and work around general construction hazards and solar specific hazards
● Comfortable with heights and exposure
● Familiarity with rope safety systems
● Willingness to travel to remote job locations and a flexible schedule
● Work well as part of a team, including taking direction from project coordinators and interacting with clients

No specific education or work experience required.

The following skills are helpful, but may be learned on the job by a motivated candidate.
● Hands on experience with solar energy systems
● Basic electrical knowledge and skills
● Basic knowledge and experience with construction
● NABCEP training or certification
● Ability to read and understand electrical and structural drawings
● Knowledge of battery storage and/or generators

Benefits:
We do not offer employment benefits such as health insurance at this time.

We offer potential tuition reimbursement for professional training and certification in solar energy systems. MPS values hard work and time off.

Other Details:
There is a provisional three-month period to determine permanent employment arrangements.
To apply for this position please submit a resume and cover letter to info@mountainpowersolutions.com.

Lithko Contracting, LLC
Posted 8/11/21

Lithko has two positions in Littleton, CO – a project engineer and a concrete construction intern. Descriptions of each job and the application link for each can be found at https://lithko.com/careers/current-openings/. You can also look for info on Handshake (#4994119 for the project engineer position and #4993584 for the internship).

Eureka! McConnell Science Museum: STEAM Intern
Posted 8/11/21

The EUREKA! McConnell Science Museum is seeking dedicated, customer service-oriented individuals to be Science Technology Engineering Art and Math (STEAM) Interns. Interns will be responsible for engaging and educating children in preschool through 12th grade about STEAM using demonstrations and hands-on activities. STEAM Interns deliver educational content in camp programs, birthday parties, school groups, and outreach demonstrations.

The individuals in these positions will be responsible for developing and co-instructing STEAM lessons, providing inquiry-based feedback to program participants, and managing classroom behavior. The interns will provide oversight to high school students who are enrolled in the Counselor in Training (CIT) Program. This highly responsible position requires a strong leader who is passionate about science education, has a desire to work with youth, and who can provide meaningful, fun learning experiences to program participants.

MINIMUM QUALIFICATIONS

- Full time college student enrolled in a degree program related to STEAM and / or education
- GPA of 3.0 or higher
- Successful outcomes on a criminal background check

LICENSES, CERTIFICATES OR EQUIPMENT REQUIRED

- CPR, First Aid, AED training required within 90 days of hire

DESIRED QUALIFICATIONS / EXPERIENCE

- Prefer experience working with youth

ADDITIONAL INFORMATION:
To apply, applicants must submit the following via email to the Intern Director, Austin Solko, at asolko@eurekasciencemuseum.org
- Application
- Resume
- Current school transcripts (unofficial is okay)
- Current school schedule