# Research and Development Summer Internship

## Full Job Description

At Interpretive Software Products (ISP), we provide industry-leading solutions to fiber-optic and logging applications, including production analysis and formation evaluation. Here, your career breakthroughs will change the future of our software development in all the best ways. We are looking for a dynamic and talented research and development intern to join us!

**Research & Development Internship Overview:**

ISP R&D encompasses the development of advanced software application algorithms on ISP’s proprietary Advanced Log Interpretation & Computation Environment (ALICE) across all wellbore monitoring sectors of the Oil&Gas industry including Production Logging, Fiber Optics (DTS and DAS), and Formation Evaluation. We offer a fast-paced cross-functional and technologically advanced environment and are passionate about developing individual engineering and scientific skills. You will have the opportunity to learn about the algorithm and application development processes we apply daily to keep our software packages at the top of their fields. You will work in collaboration with our current R&D specialistto help enhance and maintain the current applications and participate in creating our next generation of products. As part of the team, you will work to help ensure our products provide a great user experience and significant value to the customer.

**What You Will Learn**

* Advanced C++ skills
* Software modeling and simulation on Production Logging, Fiber Optics (DTS and DAS), and/or Formation Evaluation
* Evaluation and identification of new technologies for implementation
* Implementation of optimization algorithms
* High-performance processing using multi-threading and GPU programming
* Science-oriented algorithms and their development

**Life as an R&D Intern**

The R&D Intern program provides each student with real-life hands-on experience, coaching and mentoring, and networking opportunities. Each Intern will be assigned specific projects for the 3-month Internship term. This internship is a great opportunity for graduate students and recent graduates to grow and learn in an energetic work environment!

# Key Responsibilities

* Identify and develop potential algorithms applicable to a research project
* Create and execute testing models and protocols to ensure the proposed model suits actual data
* Participate in the implementation of the best model into the software package to extend its functionalities
* The typical summer term is from May 2022 – August 2022 on a full-time availability (40 hours per week).
* The Internship may be onsite in our Houston office and may require relocation. Transportation is the student’s responsibility.

# Your Profile

* Ability to demonstrate strong analytical, quantitative, and problem-solving skills
* A solid understanding of numerical mathematics: statistics, algebra, and calculus
* Excellent communication, presentation, and leadership skills are preferred
* Must be a self-starter able to work independently while contributing to the team goals
* Knowledge and experience with Windows, C, and C++ programming is a plus

# Education

* Desired majors include Engineering (Petroleum, Electrical, Computer, Geological, etc.), Data Science and Information Technology, Mathematics, and Statistics.
* Candidates must be legally authorized to work in the U.S. and actively enrolled in or recently graduated from an accredited University for the duration of the internship assignment pursuing a Master’s, or Ph.D. degree.

**Learn more about ISP**

ISP is a small fast-growing company engaged in the business of developing software packages mainly in the Oil & Gas industry. Our advanced technology is well recognized in the industry and highly regarded. The multiple and diverse tasks and assignments we give our team members lead to a challenging and rich experience.

*ISP is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, national origin, gender, gender identity, sexual orientation, protected veteran status, disability, age, or other legally protected statuses.*