Software Engineer

If you are unable to complete this application due to a disability, contact Ocean Associates at 703-388-9548 to ask for an accommodation or an alternative application process.

Ocean Associates Inc. (OAI) is seeking applicants for a full-time Software Engineer to support the National Oceanic and Atmospheric Administration (NOAA), National Marine Fisheries Service (NMFS), Pacific Islands Fisheries Science Center (PIFSC or “the Center”) in Honolulu, HI. OAI is a Virginia corporation established in 2003 that provides consulting and technical services to the U.S. government, non-governmental organizations, international organizations, and the private sector. We specialize in scientific program and project management, strategic planning, professional and technical services, and stakeholder engagement, supporting government contracts.

Background

The PIFSC is a part of the NOAA, NMFS, headquartered in Honolulu, Hawaii. The Center has taken a leading role in marine research on ecosystems, both in the insular and pelagic environments. As part of this work, PIFSC has been implementing a multidisciplinary research strategy including an ecosystem observation system, and scientific analysis to support ecosystem approaches to management and restoration of living marine resources. It conducts a wide range of activities including resource surveys and stock assessments, fishery monitoring, economic and sociological studies, oceanographic research and monitoring, critical habitat evaluation, life history and ecology studies, and advanced oceanographic and ecosystem modeling and simulations.

The PIFSC’s Science Operations Division (SOD) supports this work with a wide range of field operations and technical services.

Description

Software Engineering Services: PIFSC SOD is looking for a Software Engineer to design, develop and integrate software into embedded systems, single board computers, and other instrumentation to support existing and new underwater monitoring and sampling technologies. Responsibilities will include gathering user requirements, defining functionalities, writing code (python, C++, robotic operating system, and other languages), and identifying/assembling/fabricating hardware (CPU, chassis, ports, interface cables, auxiliary equipment, and other appurtenances) to
provide for an integrated software/hardware environment to verify software code performance and to test system functionality.

Tasks

The Software Engineer will perform the following key tasks:

- Design, develop, install software solutions and expand existing software to meet PIFSC’s changing needs.
- Write code for open-source microcontroller boards (e.g. Arduino) and single-board microcomputers (e.g. Raspberry Pi).
- Demonstrate solutions and develop technical documentation (e.g., flowcharts, layouts, diagrams, charts, commented code and clear code).
- Design and create integrated software/hardware environments to test existing and new code to ensure compatibility and stability.
- Support PIFSC SOD’s engineering and organizational mission by accomplishing related assignments as needed.

Start Date: ASAP

Location: National Marine Fisheries Service 1845 Wasp Blvd., Bldg. 176, Honolulu, HI

Salary and Benefits: This is a full-time position with benefits. Salary, commensurate with experience, between $45.00 and $49.00/hr.

Requirements

Applicants must have the following minimum qualifications:

- Bachelor’s degree in computer Science, Computer Engineering, or related technical discipline.
- 5+ years of professional software development experience.
- 5+ years of experience with Python and C++ programming.
- 5+ years of experience with Linux OS.
- 2+ years of experience with open-source microcontroller boards and single board microcomputers.
- Excellent written and verbal communication skills.
- Ability to work effectively both individually and collaboratively in a team/group setting.
- Ability to receive constructive feedback and implement appropriate action.

If you are interested in being considered for this position, please APPLY THROUGH OUR ADP WEB PORTAL, AT THE LINK AT THE TOP RIGHT OF THIS PAGE.
Only qualified applicants that meet minimum experience or background requirements stated above need apply. When applying for this position you will be asked to upload your resume at the end of this online application.

Applicants should submit a resume that includes the following:

- Cover letter that briefly describes how you meet the required and preferred qualifications listed.
- Work history for past 10 years or since last full-time education.
- Education.
- Previous experience or training with similar requirements.
- Three professional references.
- Include your name in the document file name.
- Upload your resume in readable, not scanned, PDF or Word format (PDF is preferred).

In compliance with federal law, all persons hired will be required to verify identity and eligibility to work in the United States, complete the required employment eligibility verification document form upon hire, and successfully complete a federal government background check. Ocean Associates Inc. is an Equal Opportunity Employer and does not unlawfully discriminate on the basis of any status or condition protected by applicable federal or state law.

OAI is a government contractor and is required by law to invite applicants to self-identify their race, gender, national origin, disability status and veteran status. OAI is required to use the information it collects as part of its future affirmative action efforts in hiring. The information is collected anonymously by computer and is not connected to your application. You will see a place to check certain boxes in OAI's online application. Even though the information is anonymous, self-identification is voluntary. You can always check the box that says you decline to self-identify.

Note: If you are not selected, your materials may be retained for present or future opportunities. We may use your resume in bidding on a project and if we are awarded the work, we will contact you before seeking further applicants. If you do not wish us to retain or use your resume to seek work for you, please let us know in the "Notes" section on the second page of the online application.