

**Opportunity Title:** Modeling of Fish Swimming Hydrodynamics (Postdoc)

**Opportunity Reference Code:** USACE-EL-1540934558

**Organization** U.S. Department of Defense (DOD)

**Reference Code** USACE-EL-1540934558

**How to Apply** Components of the online application are as follows:

- Profile Information
- Educational and Employment History
- Essay Questions (goals, experiences, and skills relevant to the opportunity)
- Resume (PDF)
- Transcripts/Academic Records - Click here for detailed information about acceptable transcripts
- Recommendations

Submitted documents must have all social security numbers, student identification numbers, and/or dates of birth removed (blanked out, blackened out, made illegible, etc.) prior to uploading into the application system.

If you have questions, send an email to [usace@orau.org](mailto:usace@orau.org). Please list the reference code of this opportunity in the subject line of the email.

All documents must be in English or include an official English translation.

**Description** One ORISE Postdoctoral research opportunity is available at the USACE - Environmental Lab. The research opportunity will be located in Vicksburg, MS. U.S. Citizenship is required. The ideal candidate will have received a PhD in Mechanical/Mechatronics/Biomechanics Engineering, Science, Biology or related field within the past five years. This is a twelve month appointment, with the opportunity to be renewed for additional twelve month terms. This opportunity includes, but is not limited to, the following:

The ORISE postdoctoral participant will have the opportunity to participate in science and technical activities associated with ERDC-EL. The participant will assist in the modeling of fish swimming hydrodynamics. The participant will have the opportunity to assist with computational modeling which will provide the participant exposure to cross disciplinary activities and a diverse range of skills in applied mathematics, computational modeling, programming, fluid dynamics and fish kinematics.

The ORISE participant will not enter into an employee/employer relationship with ORISE, ORISE sponsor, or any other facility, office or agency. Instead, the participant will be affiliated with ORISE for the administration of the appointment through the ORISE

**Qualifications** U.S. Citizenship is required. The ideal candidate will have received a PhD in Mechanical/Mechatronics/Biomechanics Engineering, Science, Biology or related field within the past five years.

**Eligibility Requirements**

- **Citizenship:** U.S. Citizen Only
- **Degree:** Any degree .



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- **Discipline(s):**
  - **Chemistry and Materials Sciences** ([12](#) )
  - **Engineering** ([27](#) )
  - **Environmental and Marine Sciences** ([13](#) )
  - **Life Health and Medical Sciences** ([45](#) )
  - **Mathematics and Statistics** ([10](#) )
  - **Physics** ([16](#) )