

Grant-Paid Job Description

Job title	Instructor: Ocean Science and Technology
Reports To (Position Title)	Executive Director, SuperNOVA
Research project title	SuperNOVA
Faculty/department	Engineering
FTE	1.0
Unit Full-Time Hours (35 or 37.5)	37.5 hours
Term Duration	September 9th, 2026 – December 22nd 2026
Location	Halifax Regional Municipality (HRM)
Date Created/Updated	\$20.00 per hour + 4% in lieu of vacation

About the Research

SuperNOVA is a not for profit initiative of Dalhousie University that provides experiential learning for school aged youth in Science, Technology, Engineering and Mathematics (STEM). SuperNOVA offers innovative workshops, summer camps, clubs, and community events throughout Atlantic Canada that provide youth with fun and rewarding experiences in STEM and nurture a life-long love of exploration, creativity, and academic achievement.

Job Purpose

As the SuperNOVA Ocean Science and Technology Instructor you will be responsible for the successful development, organization and execution of SuperNOVA's Ocean Science programs. You will work to develop high-quality educational STEM content to be delivered to youth across Atlantic Canada. You will be responsible for developing, learning, and delivering STEM programs in classrooms, in off campus locations, and via virtual platforms. You will work individually, or alongside one or more other SuperNOVA instructors to deliver the programs and provide supervision and care to youth participants. From time to time you may be required to perform additional tasks. You may be required to work evenings and weekends depending on programming requirements.

You will work under the supervision of the Executive Director of SuperNOVA and will report directly to the Executive Director on any employment matters.

Duties and Responsibilities

General Duties:

- You will help develop curriculum for Ocean Science and Technology programs, as overseen by your Program Coordinator.
- You will work to integrate ocean science and technology curriculum connections and resources into programming.
- Curriculum development will involve research, testing, and writing documentation related to curriculum.
- You will work as a part of a team to create specific curriculum, and ensure that all documents are delivered in a timely manner to your supervisor.
- Develop and deliver virtual programs including but not limited to webinars, live events, online clubs and instructional videos, ensuring content is suitable for delivery via virtual platforms.
- Moderate virtual programs, including but not limited to webinars, live events, online clubs and instructional videos, ensuring content is suitable for delivery via in-person and/or virtual platforms.
- Work to ensure safety of online participants, answering questions and moderating behaviour in online chats.

Act as a Program Instructor

- Adherence to SuperNOVA's policies and procedures at all times.
- You may be required to teach programs outside of your field of study, and outside of your field of curriculum creation.
- Participating in SuperNOVA training during the course of your employment.
- Developing and delivering exciting and educational workshop and camp curriculum for youth in grades 1 - 12 related to Science, Technology, Engineering and Math (STEM).
- Learning and practicing the delivery of all SuperNOVA-delivered activities prior to delivery.
- Advance preparation of materials prior to the start of the programs.
- You may be required to travel within Atlantic Canada for STEM workshop and camp delivery.
- Providing supervision for program participants and acting as a positive role model.
- Delivering presentations at community events and other STEM outreach opportunities.
- Communicating with and supporting positive relationships with campers, parents, media, and other stakeholders.
- Ensuring that program facilities are tidy, secure, and facility policies are being followed.
- Creating hazard assessment documents for each activity developed to ensure that safety protocol is accessible at all times.
- Reconcile expenses charged to SuperNOVA as per SuperNOVA procedure.

- Aiding in maintaining a healthy relationship with Dalhousie, which includes ensuring that all instructors and participants are respectful of Dalhousie University staff, property and facilities.

We thank all applicants for their interest, however, only candidates selected for an interview will be contacted.

Dalhousie University is committed to fostering a collegial culture grounded in diversity and inclusiveness. The university encourages applications from Indigenous persons, persons with a disability, racially visible persons, women, persons of a minority sexual orientation and/or gender identity, and all candidates who would contribute to the diversity of our community. For more information, please visit www.dal.ca/hiringfordiversity.

Qualifications

Required competencies:

- Current student enrolled in STEM program
- Full and unrestricted Nova Scotia driver's licence (Class 5)
- Strong communication skills
- Time management skills
- Experience working with youth
- The ability to problem solve effectively and make decisions independently

Desired competencies:

- French proficiency is an asset - if you have any proficiency in french you are encouraged to apply
- Public speaking skills an asset
- Understanding of Indigenous worldviews and/or experience working with Indigenous communities
- Experience with rural, remote, low-income and other populations typically underrepresented in STEM fields.

Supervisory/Managerial

SuperNOVA Instructor Experience

As a SuperNOVA Instructor you will have access to a unique work experience that offers personal and professional development, education and career support, skills and competencies development, extensive high quality training, and unique community outreach and engagement opportunities.

Training

SuperNOVA's robust training and certification program equips Instructors with foundational skills, knowledge and practice that are not only essential for the development and delivery of impactful youth STEM programming but that also supports future academic and professional careers.

- Gender Equity
- Indigenous Worldviews and Cultural Competency training
- Mental Health in the Workplace
- Anti-Racism in STEM
- Inclusive & Accessible Teaching Practices
- Conflict Resolution
- Effective Communication
- Certifications
- Emergency First Aid and CPR/AED Level A (valid for 3 years)
- Workplace Hazardous Materials Information System (WHMIS)
- Criminal Record Check w/ Vulnerable Sector