

Graduate Assistantship in
“Coastal Flood Risk Assessment for Transportation Infrastructure”
at the University of Maine

Maine Sea Grant and the Department of Civil and Environmental Engineering at the University of Maine invite applications for a 2-year, fully funded, **M.Sc. position to start in Spring 2027**. The position aims to support adaptation of Maine’s transportation infrastructure against coastal floods. This work will provide evidence-based information to inform prioritization of transportation assets at the state and municipal level. The student in this role will interact with state agencies and regional and municipal planning staff through the Resilient Maine project network.

The successful candidate will join the [Future Coasts Lab \(fcl\)](#) and work under the supervision of Dr. Georgios Boumis. **Research activities include, but are not limited to, conducting thorough literature reviews of existing research addressing the vulnerability of transportation infrastructure to coastal floods, analyzing modeled probabilistic flood hazard maps and other geospatial data, formulating damage functions to characterize flood-induced economic impacts due to failure of transportation assets, and presenting findings to stakeholders, public, and scientific audiences.** The graduate assistantship includes a competitive monthly stipend, tuition waiver, and partial health insurance coverage.

Qualifications:

Candidates should hold a B.Sc. degree in Civil, Environmental, or Coastal Engineering at the start of the appointment. They should also be able to demonstrate knowledge of Hydraulic Engineering – particularly flood inundation dynamics – through relevant coursework. Experience in the following is a strong asset:

- Computer Programming (MATLAB, Python, or R)
- Geographic Information Systems (QGIS or ArcGIS)

How to apply:

Please send the following documents to info@futurecoasts.group by **August 31st 23:59 (EST)**, using “**FCL M.Sc. Position – [Your Name]**” as e-mail title:

- Curriculum Vitae (max. 1-page)
- Motivation Letter (max. 1-page)

Applications from individuals of all backgrounds are welcome, including those from underrepresented groups in engineering. The University of Maine is committed to fostering an inclusive research environment that values diverse perspectives and experiences.

Best wishes,

Georgios Boumis (he/him), Ph.D.