RCOAST

transforming 4D data into coastal resilience

Position: Senior Coastal Engineer
Employment: Part-Time, with possible transition to Full-Time
Salary: $50K for 20 hours per week
Location: Remote with some travel

Who We Are. RCOAST is a coastal change data company advancing intelligent adaptation through repeat drone-based LiDAR, RGB, and multispectral data capture. We provide communities, engineers, and academics with seasonal and rapid-response data collection, mitigation performance metrics, and science-based adaptation solutions. To support real-world decision-making, we translate complex coastal dynamics into clear, simple graphics that help communities understand the science behind their changing coastlines. RCOAST's mitigation libraries reveal what works best and where—turning complex data into actionable intelligence.

Our mission is to make high-resolution coastal data accessible, intuitive, and actionable, delivering validated, science-backed intelligence to the practitioners who need it to build a more resilient tomorrow. Our priority is to leverage cross-system learning from implemented coastal mitigation strategies and openly share performance outcomes across regions, accelerating evidence-based adaptation and enhancing the resilience of coastal communities worldwide.

Role Overview. We are seeking a motivated, data- and modeling-focused Coastal Engineer to join the RCOAST team on a part-time basis. In this role, you will help expand our 4D mitigation library, support the development of cross-mitigation performance indices, and model mitigation efficacy across multiple flood and inundation scenarios. You will also perform automated model validation using ongoing seasonal and event-based datasets. A key focus of the role will be structuring the mitigation library for seamless integration into engineering applications and modeling tools such as Civil 3D, Revit, ADCIRC, Delft3D, SWAN, and XBeach.

Experience with UAV-based LiDAR, RGB, and multispectral datasets is preferred, and proficiency in Python scripting for workflow automation is required. The ability to create compelling graphics and visualizations is encouraged but not required. Just as important, candidates must thrive in a small, collaborative team environment—bringing positivity, strong communication, and a supportive spirit to a startup culture. We are a young and energized group of coastal scientists, and we are looking for someone equally excited to grow with us as we build tools to protect the world's coasts.

Required Qualifications.

- B.S. in Civil, Ocean, or Coastal Engineering
- Experience with hydrodynamic or morphodynamic modelling tools (e.g. Delft3D, ADCIRC, SWAN, XBeach)
- Experience using AutoDesk Program suite, specifically Civil3D, AutoCAD, and/or Revit
- Ability to work collaboratively in a small, team-oriented environment, with strong communication and problem-solving skills
- Motivation and adaptability to thrive in a startup setting

Preferred Qualifications.

- M.S. in Civil, Ocean, or Coastal Engineering
- Proficiency in Python (or similar) for scripting, workflow automation and data analysis
- Strong skills in GIS (QGIS is preferred) with an application in coastal change analysis
- Solid foundation in fluid dynamics, sediment transport, coastal processes, coastal engineering practices, and erosion mitigation strategies
- Strong knowledge base in nature-based engineering solution mitigation strategies including living shorelines and 3D printed artificial reefs and/or seawalls
- Knowledge of regulatory permitting processes and compliance requirements for deploying green-to-gray mitigation strategies
- Experience working in small, collaborative team environments

Employment Status: RCOAST is committed to building a diverse, world-class coastal science and data team. Right now, we can **only hire candidates who already have authorization to work in the U.S., as we are not yet able to sponsor visas**. As we grow, we fully intend to revisit this so we can welcome talent from anywhere.

Questionnaire: Once you send your resume and/or CV to admin@r-coast.com, our team will send you a short follow-up questionnaire. Please complete it to help us better understand your experience and ensure your application progresses. Responses are due by **December 5, 2025.**

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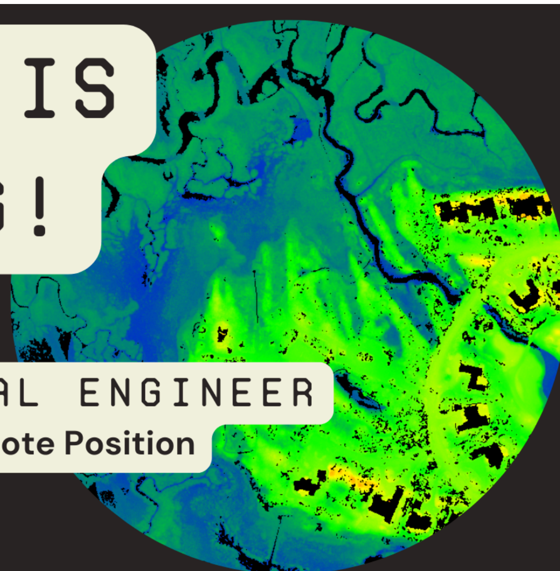
RCOAST IS HIRING!



SENIOR COASTAL ENGINEER

Part-Time, Remote Position

Qualifications:

- B.S. or M.S. in Civil, Ocean, or Coastal Engineering
- Experience with hydrodynamic or morphodynamic modeling tools (e.g. Delft3D, ADCIRC, SWAN, XBeach)
- Experience using AutoDesk Program suite, specifically Civil3D, AutoCAD, and/or Revit
- Proficiency in Python (or similar) for scripting, workflow automation and data analysis
- Strong skills in GIS (QGIS is preferred) with an application in coastal change analysis
- Strong knowledge of nature-based (e.g., living shorelines, artificial reefs and seawalls, oyster reefs), traditional, and green-to-grey mitigation solutions

Send your CV:

admin@r-coast.com www.r-coast.com