

CALL FOR APPLICATIONS: DELTA-HUB PROJECT

Two Postdoctoral Researcher Positions in Delta Science

Danube Delta, Romania | 2-Year Contracts | Starting Spring-Summer 2026

ABOUT THE PROJECT

We are looking for two motivated researchers to join our team at the **University of Bucharest** and **Sfântu Gheorghe Marine and Fluvial Research Station**, right in the heart of Europe's most dynamic delta system.

DELTA-Hub is a Horizon Europe ERA Chair project focused on understanding how deltas respond to climate change and human pressures. We combine satellite remote sensing, in-situ measurements, and numerical modelling to tackle some of the most pressing questions in delta science today.

We are a hands-on group that values fieldwork as much as data analysis, and we are genuinely excited about what we do. You will be working closely with Florin Tătui and Florin Zăinescu, along with ERA Chair Prof. Edward Anthony, a leading figure in global delta research.

You will be part of an international network involving the Delta-Hub International Advisory Board (IAB) members from TU Delft, Deltares, Tyndall Centre for Climate Change Research, NASA Jet Propulsion Laboratory, Wageningen University, University of Bordeaux, University of Pisa, Polytechnic University of Catalonia, North Carolina State University, IFREMER, Tour du Valat, offering opportunities for collaboration and career development.



POSTDOC POSITION 1: SWOT DATA & GLOBAL DELTA ANALYSIS

What you will work on:

- Developing new data products from SWOT (*Surface Water and Ocean Topography*) and NISAR satellite missions for delta environments
- Global-scale analysis of delta dynamics using satellite-derived water surface data
- Contributing to our understanding of water connectivity, water-level variability, flooding patterns, and sediment-water interactions across world deltas

What we are looking for:

- PhD in Earth Sciences, Remote Sensing, Hydrology, or related field
- Strong programming skills in Python (experience with geospatial libraries, large dataset handling)
- Strong experience in GIS analysis
- Interest in working with novel satellite datasets
- Curiosity about deltaic systems and their global significance
- Ability to work independently while being a good team player

Previous work with altimetry and radar satellite data is a plus.

POSTDOC POSITION 2: FIELD DATA ANALYSIS & MODEL CALIBRATION

What you will work on:

- Processing and analysing data from field-deployed hydrodynamic and sediment sensors: currents, wave pressure, turbidity
- Developing robust calibration relationships between optical sensors and suspended sediment concentrations using water samples from the Danube Delta
- Building calibrated datasets for hydrodynamic and sediment transport model validation
- Working with diverse long-term datasets from our research station
- Contributing to numerical model development (Delft3D, MIKE21)
- Participation in one PhD supervision

What we are looking for:

- PhD in Coastal/Estuarine Science, Physical Oceanography, Sediment Dynamics, or related field
- Solid data analysis skills in Python and/or Matlab
- Experience with oceanographic instrumentation and field data processing
- Interest in bridging observations and numerical modelling
- Hands-on attitude - you'll spend time in the field

Experience with numerical modelling (Delft3D, MIKE, or similar) and sediment transport processes is highly valued.

What we offer

- **A competitive salary:** €4000/month (gross)
- **Fieldwork funding:** Field campaigns in the Danube Delta with logistical support
- **Conference travel:** Budget for international conferences and workshops
- **Training opportunities:** Visits to partner institutions of IAB members; Summer schools.
- **Research infrastructure:** Access to vessels, field monitoring equipment, computer facilities, and modelling software licenses
- **A unique work environment:** Our research station sits where the Danube meets the Black Sea: few places offer this kind of direct access to an active delta system

How to apply

Send your application to delta.hub@geo.unibuc.ro with:

- CV (including publication list)
- Brief motivation letter (1 page max — tell us why this project interests you)
- 2 Referee Letters (including contact details of the 2 referees)
- **Application deadline:** 15 Feb 2026 **Expected start:** Spring-Summer 2026

We encourage applications from candidates of all backgrounds. If you have questions about the positions or the project, feel free to reach out.

DELTA-Hub is funded by the European Union's Horizon Europe programme. The project aims to establish a leading research centre for delta science at the University of Bucharest, addressing the sustainability challenges facing deltaic environments worldwide.

<https://delta-hub.unibuc.ro/>

