

POSTDOCTORAL CALL

Postdoctoral Positions in marine microbial ecology and seaweed holobiont

The Millennium Nucleus for Marine Agronomy of Seaweed Holobionts (MASH) is an interdisciplinary research group dedicated to the study of the biology, microbiology, and genomics of seaweed holobionts, and oriented towards the development of a marine agronomy for seaweed aquaculture. MASH research focus on three pillars of marine agronomy: understanding and controlling traits of interest for seaweed aquaculture, designing breeding strategies that maximize selection efficiency to obtain improved strains, and managing the genetic resource for sustainable seaweed cultivation. Seaweed holobiont biology, resulting from the interaction of seaweeds and their associated microbial communities, is at the core of our research. See <https://mileniomash.cl/en/> for further details.

MASH seeks applications for a postdoctoral research scholar position in the biological interactions between seaweeds and their associated microbiota.

Candidates should have a degree in Biology, Biochemistry, Biotechnology, Engineer or Biocomputing Science and be educated at PhD level.

Experience on metagenomic data analyses, microbiomes studies or environmental microbial ecology using NGS is required. Basic knowledge of seaweed biology is expected but not mandatory. The candidate will be expected to dedicate fully to research in an active and interdisciplinary research-oriented environment.

Position is for one year, renewable for up to two years. Appointments should preferably start as soon as possible.

Applicant will be requested to apply for national grant FONDECYT for postdocs.

The postdoctoral researcher will be working essentially at the GEMA Center for Genomics, Ecology & Environment, Universidad Mayor (Campus Huechuraba, Santiago, Chile), with Dr. Nicole Trefault

<https://gema.umayor.cl/nosotros/investigadores/nicole-trefault>

who oversees microbial ecology and genomics in MASH. He will also interact with other MASH researchers dedicated to seaweed population genetics and genomics, ecophysiology and mathematical modelling of metabolic networks of the seaweed holobionts.

Monthly salary will be \$1.500.000 (Chilean Pesos) before taxes, about US\$ 1.800.

Evidence of the candidate's capacity to independently conduct interdisciplinary research, strong skills and interest in data analysis, manuscript writing and presenting at national and international conferences is required.

The postdoctoral research scholar will take on the following leadership roles in the project:

- Analyses, integration, and interpretation of NGS data of microbial communities, in association with host seaweeds' genetic diversity and genomic features for an in-depth characterization of the seaweed holobiont in farms and natural populations.
- Writing manuscripts and peer-reviewed articles, reports and other materials for the Millenium Nucleus.
- Research support with other activities that further the Nucleus objectives.

Complete applications will be reviewed beginning February 27, 2023 until the search is closed.

To apply, please submit to nicole.trefault@umayor.cl, with subject: Postdoc Application MASH, and attach the following information:

- Cover letter
- Detailed CV
- Contact details for three references