Welcome!

ERA Fellowships – Green Hydrogen

Information about the new DAAD scholarship programme

ERA Fellowships - Green Hydrogen

❖ Aim of the scholarship programme:

- Support and accompany the Strategic Research and Innovation Agenda (SRIA) adopted in 2022 from the "European Green Hydrogen Agenda Process", a pilot initiative of the European Research Area (ERA)
- Qualification of future specialists and young scientists
- Strengthen and establish international cooperation and networks, especially in the ERA
- Enhance interdisciplinarity and innovative capacity, provide substantive research contributions

❖ Programme components:

- Module A: Consultation process
- Module B: Mobility support: Individual fellowships for study, research and internships (for Master, PhD and PostDocs - Incomings and Outgoings)
- Module C: Professional support and networking service: Establishment of four permanent green hydrogen working groups

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❖ **Modul A: Consultation process** (December 2023 – March 2023 and ongoing)

- About **250 experts and academics in Germany and 175 researchers and academics from the ERA** were and are still being contacted
- **Various virtual meetings** were initiated with experts who provided feedback on how best to fine-tune the programme, which institutions should be specifically engaged, and which thematic points should be given special attention
- Recommendations:
  - **Extend research** to the **entire green hydrogen value chain**, considering a **systemic view**. The more research advances in technical terms, the more ethical, economic and social aspects need to be taken into account, involving a **diverse range of disciplines and fields of work**. Interdisciplinary approach crucial.
  - For the group of **Master's students**, the possibility of a **fellowship for internships** during their studies is of greater value (than funding opportunities for studies)
  - **Science/HE competes with Industry** about skilled labour. However, there is **interest in research stays** in countries that are **strategic partners of Germany** in the development of the green hydrogen economy, also located outside the ERA.

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❖ Modul B: Mobility support for Incomings (from the ERA to Germany)

- Mobility component includes stays in Germany of varying length for **research**, **studies** and **internships**
- For the following university training and career stages: **Master students, PhD students and Postdocs**
- Applicants from **various scientific disciplines** (natural and engineering sciences, economics and social sciences, logistics and law) whose study or **research focus is clearly related to the topic of "green hydrogen"** are eligible to apply
- Countries included in the programm: **Extended European Research Area** (EU member states, Albania, Armenia, Bosnia and Herzegovina, Faroe Islands, Georgia, Israel, Kosovo, Morocco, Moldova, Montenegro, Northern Macedonia, Norway, Switzerland, Serbia, Tunisia, Turkey, Ukraine, United Kingdom)
- Additional funding for further training, conference travel
- Climate-friendly mobility : CO_2 compensation, Green Mobility Top Up
- Applications deadlines:
  - Applications from PhD students and PostDocs can be submitted anytime
  - Applications from Master students can be submitted next in September/ October 2023

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❖ Modul B: Mobility support for Outgoings (from Germany into the ERA and beyond)

- Mobility component includes stays abroad of varying length for **research**, **studies** and **internships**
- For the following university training and career stages: **Master students, PhD students and Postdocs**
- Applicants from **various scientific disciplines** (natural and engineering sciences, economics and social sciences, logistics and law) whose study or **research focus is clearly related to the topic of "green hydrogen"** are eligible to apply
- Funding for stays in the **Extended European Research Area** and other non-European countries
- Additional funding for further training, conference travel
- Climate-friendly mobility : CO_2 compensation, Green Mobility Top Up
- Applications deadlines:
  - Applications from PhD students and PostDocs can be submitted anytime
  - Applications from Master students can be submitted next in September/ October 2023

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- **Modul C: Professional support and networking measures- establishment of four green hydrogen working groups**
  - Four working groups will be formed according to the agenda process (SRIA):
    - (1) **Production**
    - (2) **Transport and Infrastructure**
    - (3) **Market stimulation**
    - (4) **Cross-cutting issues**
  - Exclusive contact to other fellows of the programme, experts, DAAD Alumni, representatives from science and industry
  - A space where different stakeholders (industry, research, academia, and civil servants) come together to make the green hydrogen economy in Germany and the EU a reality
  - Different events (virtual/present): Lectures, workshops, networking tour
  - Financial support for participation in conferences and trainings

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❖ Modul C: First Green Hydrogen information and networking tour to Germany, 2023

- Intended to bring together German and international researchers in the green hydrogen economy, foster the exchange of ideas and build collaborations in real projects and research initiatives. The tour will be in **English**.
- Participants will have the opportunity to:
  - **one-week on-site visits** to various higher education institutions, research institutes and companies in Germany, actively researching and developing innovative **projects in the field of green hydrogen**
  - foster valuable **contacts for a mutual exchange** of current research initiatives and projects, and **share perspectives and expertise**
  - obtain information on funding opportunities for academic exchange, institutional and/or individual **collaborations**
  - program-related **costs in Germany** (accommodation, travels, meals) will be **covered by the programme**

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❖ Public outreach

- For Incomings (continuously):
  - **DAAD Offices** (mailings, social media, online sessions)
  - AS Brussels
  - AS Tunis
  - AS London
  - AS Paris
  - IC Madrid
  - IC Athen
  - IC Rom
  - IC Istanbul
  - IC Budapest
  - IC Riga
  - IC Belgrad
  - IP Prag
  - **Research in Germany** (website, newsletter, social media)

- For Outgoings (continuously):
  - DAAD Newsletter for HEIs
  - DAAD Alumni Newsletter
  - DAAD Website frontpage
  - DAAD Social Media Channels (Facebook, Twitter, Instagram, LinkedIn)
  - Mailings to HEIs and Members of the SRIA Task-Force
  - online sessions

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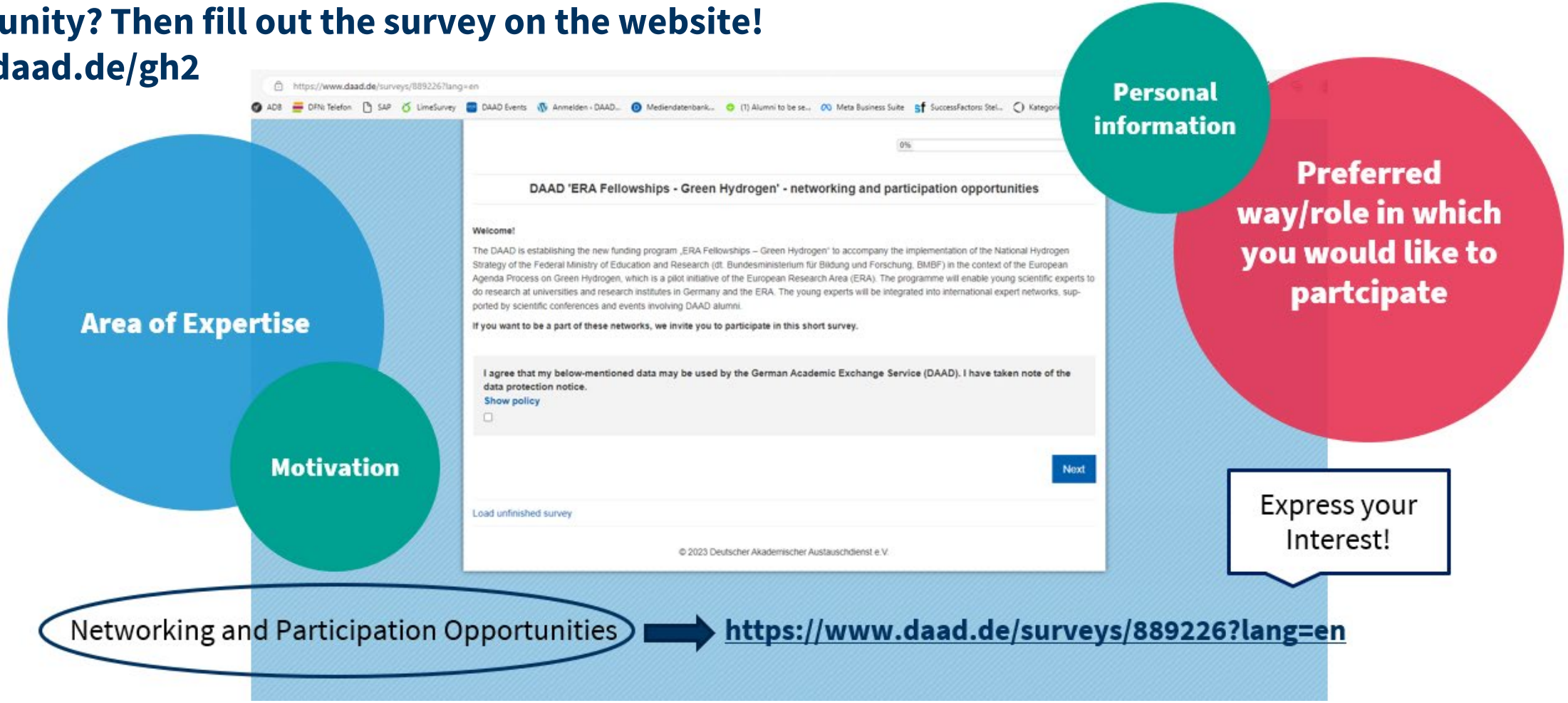
You want to become a part of the Green Hydrogen Community? Then fill out the survey on the website!
www.daad.de/gh2



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Thank you for your attention

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- **Modul C: Professional support and networking measures- establishment of four green hydrogen working groups**
  - Four working groups will be formed according to the agenda process (SRIA):
    - (1) **Production** (e.g., different technologies for Hydrogen production, projects and technologies for the optimization and up-scaling of green hydrogen production in the short, medium, and long term etc)
    - (2) **Transport and Infrastructure** (e.g., technologies for hydrogen transport and storage, safety issues, the efficient integration of hydrogen into existing electricity structures etc)
    - (3) **Market stimulation** (e.g., introduction of hydrogen in the industry (refining, ammonia production, steel industry, hydrogen in domestic uses, measures to make the cost of green hydrogen production competitive and bankable, e.g., through production subsidies, carbon pricing mechanisms or other exemptions, Policy framework for the eventual integration of green hydrogen as an energy carrier into the clean energy grid etc)
    - (4) **Cross-cutting issues** (e.g., socio-economic and environmental issues, regulatory framework, legislative framework and the development of standards for the creation of a common and integrated system at the EU level, questions for civil society and global (in-)equality)

Survey: ERA Fellowships – Green Hydrogen

Academic Career Level:
34 Professors
56 PostDocs
71 Others (B.A., M.A., PhD candiatates etc.)

161 Responses (as of April 2023)

Roles people are willing to take on:

a) Mentor: **43**
b) Consultant for DAAD: **76**
c) Expert: **93**
d) Academic Supervisor: **63**
e) Provider of internship: **50**
f) Member of selection comitee: **70**
g) Multiplicator: **34**
h) Not sure yet: **34**

♀ **51** Women

♂ **111** Men

Number of people interested in working groups:
a) Production: **93**
b) Transport and infrastructure: **77**
c) Market development strategies: **79**
d) Cross-cutting issues: **88**
e) Not sure yet: **17**

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