

WELCOME TO



YI YANG

## GNeuS Programme is proud to introduce you to its Fellows, selected within Call 3



*Few words about you and your research project*

*What is your background?*

*How have you heard about GNeuS?*



Hello, I am **Yi Yang**, a postdoctoral researcher at JCNS-1, Forschungszentrum Jülich.

I am a chemist, and my current research focuses on the **microscopic structure of membrane electrode assemblies (MEAs) in fuel cells**—particularly their transport structures and dynamics.

The goal of my research is to **elucidate the relationship between microstructure, microdynamics, and macroscopic catalytic performance**.

I plan to collaborate with **VARTA**, a leading battery manufacturer, to bridge the gap between fundamental research and industrial applications.

I completed my PhD in China at the **University of Chinese Academy of Sciences**, where I specialized in fuel cell catalyst research and advanced characterization techniques.

Through my doctoral work, I developed a strong **background in material science and characterization with large-scale facilities**.

I first learned about the GNeuS Project during discussions with renowned researcher at a conference, and he strongly recommended that I apply.

This exposure made me recognize GNeuS as an **excellent opportunity to further develop my expertise**.



*Why did you apply specifically on GNeuS?*

I applied to GNeuS because of its **strong commitment to fostering interdisciplinary research and international collaboration**, particularly within the field of neutron science.

I firmly believe that **neutron scattering is a critical tool** for probing the intricate microstructure of my catalyst system, and access to state-of-the-art facilities will greatly enhance my research capabilities.

Moreover, the supportive project network promises to accelerate my professional development and significantly impact my career.

I am confident that **this fellowship will not only advance my research but also pave the way for long-term success in my field**.

*What impacts do you expect from the GNeuS fellowship?*



I expect the fellowship to significantly transform my research career and advance the field of neutron science by enabling high-quality publications and **innovative methodologies in fuel cell MEA research**.

I plan to disseminate results through international conferences, workshops, and journals, while establishing **strong collaborative networks** with academic and industrial partners.

Ultimately, I aim to leverage these outcomes to further **sustainable energy technologies**, and facilitate technology transfer, ensuring that our research delivers both scientific insight and practical benefits.

