

# Carry out your own PhD project!

– in Experimental Biophysics / Biochemistry –  
supervised by

Prof. Peter Hegemann (Humboldt University of Berlin)

The Hector Fellow Academy offers you the opportunity to **realize a self-developed research project under supervision Prof. Peter Hegemann**. He is one of the Hector Fellows, a community of outstanding professors from different research institutions across Germany working in **STEM-subjects, medicine, and psychology**.

He is one of the founding fathers of optogenetics, which combines the methods of optics and genetics to create a form of non-invasive stimulation of neurons. His research with photoreceptors of algae has led to the discovery of light-sensitive ion compositions in cells. The protein involved (“channelrhodopsin-2”) enables a precise control of genetically modified cells through light pulses, which leads to a new possibility to treat neuronal illnesses.

## Your profile

You are enthusiastic about developing and investigating an innovative research idea within the [discipline of Prof. Hegemann](#)

You have a master’s degree in a scientific or engineering subject with excellent grades

## Our offer

- ✓ Opportunity to realize a self-developed research idea
- ✓ Mentored by an internationally renowned, top-level scientist
- ✓ Funded position (according to TV-L 13, up to 100%, based on the [funding rates](#) of the DFG for PhD students)
- ✓ Extensive research funding
- ✓ Membership in an excellent research network
- ✓ Additional management courses, trainings & networking events

## Your application

Apply until **March 31<sup>st</sup>, 2020** via our [Application Portal](#).

Further information: [www.hector-fellow-academy.de](http://www.hector-fellow-academy.de)