



PhD (65% E13 TVöD Bund) and Postdoc (100% E13 TVöD Bund) positions in chronobiology/psychology/vision science/human neuroscience (m/f/d)

The Max Planck Research Group **Translational Sensory & Circadian Neuroscience** based at the [Max Planck Institute for Biological Cybernetics](#) in Tübingen, Germany, invites applications for fully funded PhD (65% E13 TVöD Bund) and Postdoc (100% E13 TVöD Bund) positions in chronobiology, psychology, vision science and human neuroscience (m/f/d/) with a start date of **1 April 2022 or later**.

Description

The Max Planck Research Group **Translational Sensory & Circadian Neuroscience** aims to understand the effects of light on human physiology and behaviour. The research group is led by [Dr. Manuel Spitschan](#), who jointly holds the professorship “Chronobiology & Health” at Technical University Munich. The research group is embedded in a network of international collaborators. Successful candidates will join a vibrant neuroscientific research community in Tübingen. Current research questions include:

- Mechanisms underlying human vision and circadian photoreception in health and disease
- Understanding and modifying light exposure in the real world
- Non-canonical light-sensitive pathways in humans
- Standardisation and open science

We use a multi-modal hybrid-methods approach in our research. Methods include circadian and neuroendocrine assessment methods, spectral engineering for tailoring and design of light stimuli (including using VR goggles and spectrally tunable lighting), (psycho)physiological measurements, including pupillometry, DLMO and core body temperature, measurement of rest-activity cycles using actigraphy, functional neuroimaging, computational modelling, ecological momentary assessment, ambulatory light measurement measurements, survey-based methods, and behavioural interventions. For recent representative publications, please see: [10.1093/braincomms/fcab159](#), [10.12688/wellcomeopenres.16595.1](#) and [10.1016/j.cub.2019.11.031](#).

Your profile

Essential

- A postgraduate degree at Master’s level (PhD position) or a doctoral degree (postdoc position) in psychology, neuroscience, biology, medicine, biomedical engineering, vision science, lighting science, and adjacent disciplines
- Experience in scientific, statistical or other programming in Python, R, MATLAB or similar languages
- Knowledge and experience in data analysis
- Experience working with human participants
- Scientific writing skills

Desired

- Experience in version control with git
- Experience in open science practices
- Knowledge of linear algebra
- Proficiency in German

Further details

Positions are for three years with the possibility of extension. PhD students can enrol with the doctoral program of the [Graduate Training Centre/International Max Planck Research School \(GTC-IMPRS\)](#), the [Graduate School of Neural & Behavioural Sciences](#) or [Graduate School of Neural Information Processing](#).

The Max Planck Society strives for gender and diversity equality, welcomes applications from all backgrounds, and strongly encourages individuals from underrepresented groups to apply. Applicants with disabilities are treated with preference given comparable qualification.

We foster an engaging mutually enriching work environment that is supportive of members' professional and personal development.

Application requirements

Please send the following documents via email to manuel.spitschan@tuebingen.mpg.de:

- **Cover letter describing your interest in the position.** Please provide evidence how you meet each of the essential and, if applicable, desired expectations listed above. Where essential criteria are not met, the cover letter needs to include information for how these could be met at the start of the position.
- **Curriculum vitae** including publication list (if applicable) and contact information of two references.
- **Writing samples from Bachelor's or Master's theses (PhD positions) or PDFs of two representative publications (Postdoc positions).**

Please note that incomplete applications will not be considered. Informal inquiries can be addressed to manuel.spitschan@tuebingen.mpg.de.

