ETH zürich

D MATL.

Support of ERC Starting Grant and SNSF Eccellenza applications in Materials Science and Engineering

The **Department of Materials (D-MATL)** at ETH Zurich announces support for applicants to the Starting Grant program of the European Research Council (ERC-StG) and the Eccellenza program of the Swiss National Science Foundation (SNSF). Successful candidates may be invited by the ETH President to negotiate a five-year independent non-tenure-track assistant professor position. Extensive laboratory space, a start-up budget and an annual budget for teaching and research in addition to the ERC or SNSF funding will be provided.

ETH Zurich offers a lively research environment, excellent infrastructure in an interdisciplinary environment and diverse funding opportunities for young investigators. For the next application cycle, we particularly encourage proposals in the following fields:

(i) **Solid-state chemistry and synthesis of materials with functional electronic and magnetic properties.** Candidates will have experience in solid-state synthesis and inorganic crystal growth as well as physical property measurements of structure-property relationships in complex systems. Specific fields of interest include, but are not limited to: Designed synthesis of bulk quantum materials with novel properties (including strongly-correlated electron systems, frustrated magnets, superconductors, topological insulators and semimetals); Synthesis and assembly of 2D van der Waals materials and heterostructures; Materials for thermoelectrics, photovoltaics, and energy storage.

This position is jointly supported by the Paul Scherrer Institut (PSI) as part of a new centre for Materials Discovery. Successful applicants can take advantage of the state-of-the-art facilities for materials characterization using photon and neutron probes and additional laboratory infrastructure made available by the PSI.

(ii) **Translational materials research.** Candidates will have experience in different stages of the materials innovation chain, focusing on translating breakthroughs in advanced materials research towards commercial technologies and applications. Specific fields of interest are associated with the current research activities of the Department of Materials and the Competence Center for Materials and Processing of ETH Zurich and include, but are not limited to: Design and integration of materials in next-generation technologies; Novel fabrication or processing methodologies; sustainability, reliability, lifetime issues; Integration, packaging and testing of devices and systems.

The short-listed candidates will be mentored in their proposal submission to the European Research Council and/or Swiss National Science Foundation. Prospective applicants should hold a doctoral degree in Materials Science, Chemistry, Physics, or Engineering, and must comply with the eligibility criteria of the ERC Starting Grants and/or the SNSF requirements for Eccellenza Professorial Grants. ETH Zurich is an equal opportunity and family friendly employer committed to increasing the diversity of their staff members.

Deadlines for applications: **June 15th 2020** (ERC StG)**, August 31st 2020** (SNSF).
Interested candidates should apply online at https://mat.ethz.ch/department/open-positions.html, including the following documentation:

- CV and list of publications
- Research statement (max. 2 pages, i.e. summary of grant proposal)
- Teaching statement (max. 1 page)
- Motivation letter (including a clear statement of how the candidate‘s research and teaching will fit in the current portfolio of the Department)

Applications will be reviewed within three weeks of the above-specified dates.