

Department of Natural Sciences and Sustainable Development
Ministry of Science and Technology

中華民國台北市和平東路二段 106 號 20 樓
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TSMC Junior Fellow Program

Program

Supported by TSMC, the MOST offers several postdocs for a 2-year term from 2019/08-2021/07 to highly motivated, well-qualified, and dynamic young scientists who wish to have a chance to define and lead the growth of new research areas on next generation semiconductor science & technology. Performing research as a key intellectual contributor in a high-standard university research team in Taiwan strongly engaged with the stimulating TSMC environment shall enhance her/his scientific career.

TSMC Junior Fellows are appointed to a 2-year term and are awarded

- Up to USD 60,000 salary per year per person depending on qualifications.
- The title of “TSMC Junior Fellow” for 2019/08-2021/07.

Eligibility and Requirements

- Applicants should be with Doctorate in science or engineering discipline, strong track record of publication and good oral and written communication skills.
- Applicants shall need to perform research in the areas of TSMC’s interests under the university research teams in Taiwan. Please refer to the link below for the eligible PIs (Taiwan Consortium of Emergent Crystalline Materials (TCECM), Ministry of Science and Technology (MOST))

Web page of TCECM: <https://tcecmtw.wordpress.com/>

List for eligible PIs <https://ppt.cc/fOHdXx>

- Applicants are encouraged to contact eligible PIs and anticipated to get the agreement to work under the listed PI of the hosting research teams, subject to successful application.

- Area of TSMC’s interests:

✧ Growth of high mobility 2D semiconductors, and precise control of defect/surface/electronic structures for high-performance computation or high-density memory device applications.

✧ New physics or properties based on 2D materials, including 2D proximity effect, ferroelectricity, topological property, spin transport or magnetic property for exploratory logic/memory applications.

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- ✧ Research on growth, characterizations, devices and physics on multiferroics and/or complex oxides for next-generation multifunctional electronics devices.
- ✧ Simulations to understand the fundamental and address the issues mentioned above.

Selection Criteria

Applications will be reviewed by the TSMC Junior Fellow review committee and evaluated on the following criteria:

- The intellectual significance and quality of the funded or new research projects in TCECM, MOST Taiwan.
- Research track record of the applicants and the PIs of the hosting research teams.

Application Materials

Each completed application should be submitted to MOST directly **by the main PI** of the hosting research team and must include:

A single PDF file submission to the E-mails: cwchen@most.gov.tw and which includes

- CV and publication list of the TSMC Junior Fellow applicant.
- Three letters of support for the TSMC Junior Fellow applicant.
- CV and publication list of the PIs (main PI and co-PIs) in the hosting research teams.
- A brief statement of how the TSMC Junior Fellow applicant contributes to the funded or new research projects.
- Scientific proposal of the research project with the elaboration on expected scientific contribution.

Deadline

The proposal should be **submitted before 27th May (Monday), 2019.**

Notification

All applications will be acknowledged by email. Applicants will be notified of as soon as the review committee reaches decision.