

Invitation to tender

«Best Student Thesis Award 2024» – SEMIconductor



SWISSMEM | Semiconductor Industry sector (SEMI)

WE WANT YOU!

You conduct a **Bachelor, Master or Semester thesis** at a Swiss University or University of Applied Sciences in the field of semiconductor technologies?

The Swissmem industry sector «semiconductor» SEMI offers for the first time the **SEMI-Award for outstanding Bachelor or Master thesis'** in the field of semiconductor technologies.



SEMI Best Thesis Award 2024

The award offers a first price of CHF 1'500.-, a second price of CHF 750.- and a third price of CHF 500.-.

The call is aimed at prospective graduates of Swiss Universities and Universities of Applied Sciences who submit their written thesis of outstanding quality and impact between September 2023 and August 2024 on an industry-relevant topic in the field of semiconductor technologies.

The Swissmem SEMI industry sector is looking forward to receiving your application and wishes you every success with your thesis!



Take this opportunity – since: Innovation must be awarded!

Cemal Aydogan
President – SIS-SEMI

Dr. Adriaan Spierings
Secretary General – SIS-SEMI

General information

The basic requirement for admission to the award is a strong connection to industry. The solutions and results developed should allow for potential implementation in industry. Topics can address aspects along the entire semiconductor value chain:



Topics in the field of new business models or enabling new application fields made possible by advanced semiconductor technologies or products are also welcome.

«Best Thesis Award 2024 – Semiconductor technologies»

Swissmem Semiconductor Industry sector (SEMI)

Registration

Registration until **Friday, 31. Juli 2024** (latest)
to: semi@swissmem.ch

- Details**
- Thesis title
 - Abstract*
 - Motivation & Description of the industry relevance: max. ½ page
 - Name of the university, institute
 - Supervisor (*incl. Titel*)
 - Contact details of the applicant: Pre-name, name & private email / Phone**

* *in German and English*

** *all involved students*

Jury

The expert jury consists of representatives of the Swiss research community as well as industry representatives from the members of the Swissmem SEMI industry sector.

- Tobias Keller (Hitachi Energy Systems)
- André Grede (Comet Group)
- Maurus Tschirky (Evatec AG)
- Prof. Samuel Huber (FH-Ost)
- Prof. Michael Pichler (FHNW)

The jury decides on admission to the award and evaluates the submitted thesis on the basis of specified criteria.

Award pre-selection

- Admission**
- Bachelor-, Master or Semester Thesis in semiconductor technologies or applications
 - Implementation period:
01.09.2023 – 31.08.2024

The work must have a concrete industrial reference. This means that the results must be usable by an industrial partner.

The jury will decide on admission by August 30, 2024. If the application is accepted, an NDA (non-disclosure agreement) regarding the thesis will be concluded between the expert jury and the participants/institute.

Thesis submission in D or E

If your application is accepted, please submit your complete documents.

Latest date → **Friday, September 17th 2024**
to: semi@swissmem.ch

- Documents**
- CV of the student
 - Evaluation documents and final grade incl. signature of the supervisor
 - Management summary in D and E (max. 1 page)
 - Presentation (this must be publicly usable)
 - Complete thesis as a PDF document

Thesis evaluation

1. Innovative content, novelty, solution approach:
Independent comprehensibility of the thesis
2. Scientific nature, derivations, quality of research/sources, own contribution
3. Quality of the written work submitted:
Conciseness, explanation of complex issues
4. Industrialization potential:
(link between theory and practice)
5. Final grade of the thesis
 - Criterion 1 & 4 → Weighting 2x
 - Criterion 2 & 3 → Weighting 1x
 - Criterion 5 → Weighting ½ x

Award ceremony

The "Best Thesis Award - Semiconductor" will be presented at a SEMI networking event in November 2024.

All members of the Swissmem SEMI industry sector, as well as the participants and supervisors, will be invited to this event.

The finalists will present their thesis to the audience in a presentation (max. 15 min + 5 min Q&A).

The contents of this presentation must not be subject to confidentiality!

Organizer

Swissmem Semiconductor industry group
Dr. Adriaan Spierings / Head of industry sector

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Disclaimer

Confidential handling of the submitted documents is ensured. The presentation will be made available to members and other interested parties. The expert jury is not obliged at any time to justify its decisions regarding admission and evaluation. Legal recourse is excluded. Audio, image and video recordings may be made during the event. These will be processed, stored and publicly distributed.