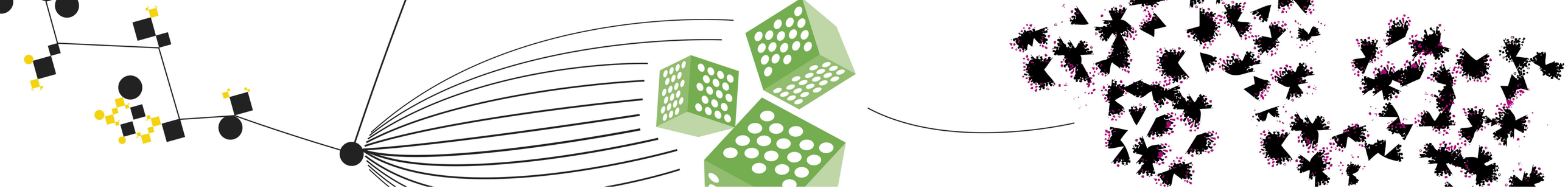


CHIPTECH TALENT PROGRAMME OVERVIEW - MARCH 2026

EDUCATION - ALIGNMENT & FURTHER DEVELOPMENT

RUNNING PROJECTS

Systems Engineering Essentials
P-002 | Robert Reyes Garcia

Teaching essential Systems Engineering to non-experts

ChipTech Masterclasses
P-004 | Wim de Boer

Develop flexible industry-aligned masterclasses for professionals

Interactive Knowledge Hub
P-005 | David Fernandez Rivas/Mathieu Odijk

Create a living microfabrication knowledge-preservation platform

Future Ready Talent
P-007 | Wendie Klieverik

Work Integrated Learning Quality Framework boosts learning and employability

Develop high-tech equipment track
P-011 | Maarten Bonnema

Develop new ME track in high-tech equipment engineering

HighTech Machine Design Master course
P-012 | Maarten Bonnema

Develop flagship course for high-tech machine design

Introduction to Chip Technology: design, manufacture and characterize your chip
P-018 | Herbert Wormeester

ECIU micro module

Automated exercise generator + answers
P-023 | Cora Salm

Generate practice material and support flexible learning paths

ChipTech Expert Finder
P-025 | Tineke van der Wal-Zoer

Develop ChipTech Expert Finder for quick expertise lookup and conversion

ASML Visit AT + TN students (120) (12/3/26)
P-026 | SV Arago

Explore ASML applications of physics and engineering

Tailored scholarships for Excellent Students
P-027 | Karan Raju

Provide tailored scholarships attracting top Beethoven aligned students

Extra Admission Office capacity
P-034 | Antoinette Tool

Request extra admission office capacity to meet Beethoven influx goals

Study advisors ChipTech Talent
P-036 | Wim de Boer

Strengthen study advising to improve MSc progression

ET Pre-master Beethoven accelerator
P-039 | Marijke Stehouwer/Wim de Boer

Expand and improve selective pre-master pathways for ChipTech Talent

New course(s) on digital IC design and mixed analog-digital IC-design
P-041 | Bram Nauta

Develop new course on digital IC design and (integrated/ separate) mixed-signal IC design

New courses to advance knowledge into fields around microfabrication
P-042 | Jurriaan Schmitz

Train students in emerging ChipTech testing skills

ChipTech minor
P-043 | Cora Salm

Develop ChipTech minor covering device physics and fabrication

Bachelor internship (minor)
P-044 | Cora Salm

Offer B-EE students optional company internship experience

Expand EE outreach & pre-master support
P-045 | Cora Salm

Hire coordinator to strengthen ChipTech student pathways

Control of Distributed Parameter Systems
P-047 | Hans Zwart

Teach control of distributed-parameter systems to engineers

Electronics education for non-EE students
P-048 | Cora Salm

Inspire bachelor students through interactive chip-technology workshops

Modernize master course Advance Analog IC Electronics
P-049 | Bram Nauta

Modernizing analog IC course to strengthen chip-tech pathways

Increasing visibility of chiptech in the TNW Science programmes
P-050 | Arnoud Onnink

Add chiptech examples across science curricula

NEW IDEAS/PROPOSALS

Easy access chip characterization lab
P-028 | Gertjan Koster

Student access to essential chip-fabricati characterization tools

Design & Development of Computational Electromagnetics Course at UT
P-061 | Carlos A. Pèrez Arancibia

Develop advanced course in computational electromagnetics

ALREADY IMPLEMENTED

Student advisor ChipTech Talent
P-020 | Rita de Wilde-Brink

ChipTech Talent M-program international student support

ChipTech sessions open days
P-022 | Cora Salm

Chip-technology presentation development and team planning

Physics Education Working Group (WND) Conference
P-024 | Edwin Lodder

UT outreach at WND to boost ChipTech visibility

UNIVERSITY OF TWENTE.

CHIPTECH TALENT PROGRAMME

OVERVIEW - MARCH 2026

RECRUITMENT

RUNNING PROJECTS

Identify target groups
P-010 | Maarten Bonnema

Increase ME influx ans improve BSc retention

Netherlands-Southeast Asia Semiconductor Short Talent Programme
P-014 | Leontien Kalverda

Recruit Southeast Asian students for Dutch ChipTech Masters

UT Summer school: Photonic Chiptech Meets Industry
P-021 | Lantian Chang

Promote UT optical research to attract students

Inhouseday to VDL Almelo
P-051 | SV Stress

Industry visit helping students discover opportunities in ChipTech

NEW IDEAS/PROPOSALS

MindCraft - online environment to attract students
P-055 | Jorien Berendsen and Loes Segerink

Online portal boosting UT visibility via school projects

Graduation project chiptech - outreach and content
P-056 | Cora Salm

Outreach with graduation projects to broaden student's chip-tech interest

Portable demonstration setup (boxes)
P-057 | Cora Salm

Chip-tech education boxes for student engagement and recruitment

Creathon/Hackaton
P-060 | Tim Jongman

Organise one-day ChipTech creathon for bachelor students

Scholarship opportuntiies for MSc students Indonesia
P-035 | Leontien Kalverda

LPDP priority programme

ALREADY IMPLEMENTED

Lustrum Congres
P-031 | SV Arago

Inspire TN/AP students through optics-focused ChipTech networking

Netherlands Innovation Mission - Visit India
P-003 | Harijot Singh Bindra

Represent Dutch chip design landscape internationally

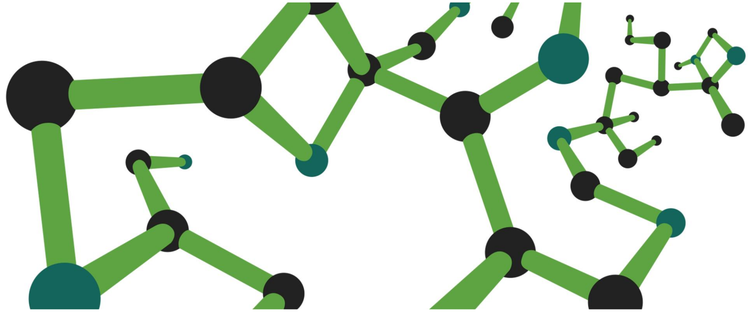
Summerschool CuriousU 2025
P-008 | Cora Salm

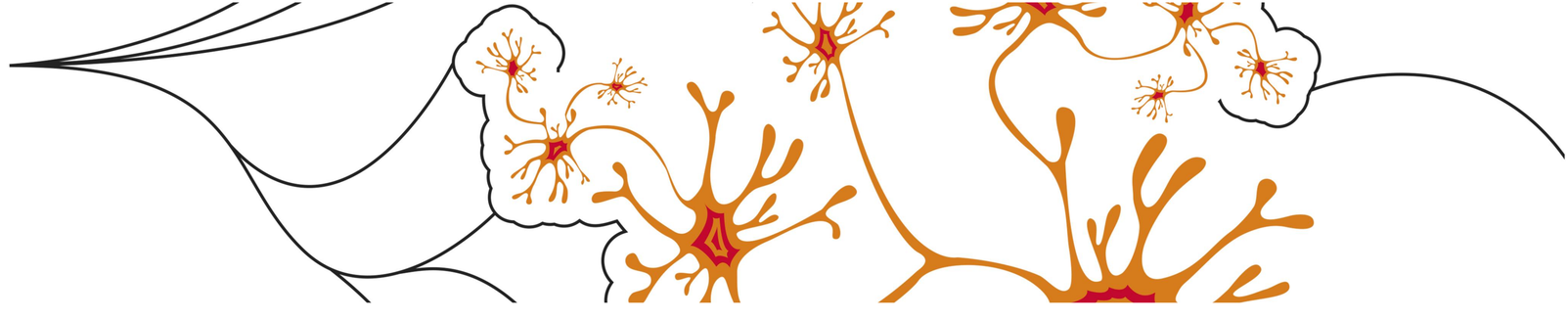
Inspire bachelor students through interactive chip-technology workshops

Bedrijfsbezoek Demcon en Quix
P-009 | Herman Offerhaus

Introduce MPOP students to Twente optics industry

UNIVERSITY OF TWENTE.





CHIPTECH TALENT PROGRAMME

OVERVIEW - MARCH 2026

LIFE LONG LEARNING

RUNNING PROJECTS

Aanschuifonderwijs
P-001 | Wim de Boer

Identify suitable ET MSc courses for professionals

FIRIS-P and ShapeUp for ChipTech
P-006 | Jan Buitenweg

Develop competency aligned tools supporting ChipTech identity

ET EngD Beethoven accelerator
P-038 | Wim de Boer/Hans Voordijk

Strengthen EngD programmes for advanced multidisciplinary specialization

NEW IDEAS/PROPOSALS

ET LLL ChipTech Talent accelerator
P-059 | Wim de Boer

Strengthen LLL educational design and Semicon masterclasses

EVERY STUDENT IN THE RIGHT PLACE

RUNNING PROJECTS

Chiptech Career Event S&T Science
P-013 | Edwin Lodder

Inspire S&T students through ChipTech career event

Beethoven collaboration
P-040 | Herbert Wormeester

Explore expanding Lodz partnership to boost Semicon influx

SOLID, flexible bridging modules
P-052 | Arie van Houselt

Flexible modular course preparing learners for chiptech masters

Symposium Quantum Matter for ChipTech
P-053 | Stefan Kooij

Symposium linking quantum matter to Chip-tech applications

SEMICON LEARNING CENTER

RUNNING PROJECTS

Semiconductor/Chiptech demonstration and presentation toolkit
P-019 | Edwin Lodder

Develop modular ChipTech presentation toolkit for outreach

UNIVERSITY OF TWENTE.