



Internship SET

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Student Mobility Centre (SMC)

- ▶ Internship co-ordinator ME, SET:
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 - “consulting hours” (see website)
 - if deemed beneficial a longer appointment will be set

- ▶ Support staff SMC for ME, SET:
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why ?

- ▶ to acquire working experience outside UT
- ▶ to apply theory, knowledge, skills, in the 'real world'
- ▶ preferably abroad → different culture
- ▶ at entry (academic) engineers level
- ▶ to practise:
 - applying for a job
 - working in multidisciplinary teams
 - writing reports

Academics standards

- ▶ when: 2nd year of the programme
- ▶ minimal requirements (at the *starting date* of the internship):
 - BSc finished
 - min. 2/3 master subjects finished (40EC)
- ▶ duration: 20 EC
- ▶ not a holiday / observation only assignment ('meeloopstage')
- ▶ one assignment / participation in engineering team

How to start ...

- ▶ this meeting
- ▶ www.utwente.nl/set → "Student mobility (Internship a.o.)"
- ▶ registering at Mobility Online
 - workflow based
 - registration - application - proposal - notification - return
- ▶ semi-automatic access to [Blackboard](#)

Blackboard

- ▶ information per phase (preparation, execution & finishing)
 - tips how/where to search
 - (where to get) useful documents
 - ...
- ▶ Manual External Training (www.stage.utwente.nl; MET)
+ ME/SET specific additions to MET
- ▶ all finished internships of past 10 years
- ▶ vacancies of internships (mainly in the Netherlands)
- ▶ useful links, intern & extern

Choices

- ▶ where (placement) ?
- ▶ what ?
- ▶ where (geography) ?

Choices : where ?

- ▶ company (MKB, multinational)
- ▶ bureaus (engineer, advice, design)
- ▶ research institute
- ▶ university

Choices : what ?

- ▶ design, construction
- ▶ organisation, management, process
- ▶ analysis, research, development

Choices : where ?

2007-2013:

Netherlands	47	57%
rest of the world	35	43%

placement abroad:

Europe	14	40%
outside Europe	21	60%

placement 'company':

companies	58	71%
universities	12	15%
research institutions	10	12%

"first timers" 41 50%

39% non-Dutch: 16% abroad



▶ Australia	2
▶ Brazil	1
▶ Cambodia	1
▶ Chile	1
▶ China	2
▶ Curacao	2
▶ Denmark	2
▶ Ecuador	1
▶ Finland	1
▶ France	1
▶ Germany	4
▶ Greece	1
▶ Iceland	1
▶ India	1
▶ Indonesia	3
▶ Netherlands	47
▶ New Zealand	1
▶ Nicaragua	1
▶ Norway	1
▶ South Africa	2
▶ Spain	2
▶ Sri Lanka	1
▶ Switzerland	1
▶ USA	2

Australia	RMIT University	Internship Report Centre for Design at RMIT
Cambodja	Kamworks	Technical monitoring of autonomous photovoltaic systems
Chile	Poch	Economical potential for the implementation of photovoltaic solar systems in Chile
China	Tsinghua University	Torrefaction gradients in biomass
Curacao	Aqualectra	Inventory of waste streams as a start to a companywide waste management policy
Denmark	Aalborg University	Modeling of a small scale high temperature PEM fuel cell system for combined heat and power generation
Denmark	Vestas Wind Systems A/S	Steady blade element momentum code for wind turbine design validation tool
Finland	Finland Futures Research Centre	Biomass Digestion on farmscale in the Netherlands and Finland
France	ITER	Thermo-Hydraulic Joint Model With Typical PF Joint Parameters As Exemplary Input
Germany	GE Wind Energy	- 55AT project - internship GE Wind Energy

Germany	Reiner Lemoine Institute	Global Cumulative Installed Photovoltaic Capacity, Solar Home Systems and Mini-#8208;grids
Greece	Centre of Renewable Energy Sources (CRES)	Data Simulation from the operation of a hybrid RES-Hydrogen plant & Process optimization
Iceland	Landsvirkjun	Internship report.
India	Indian Institute of Science	Biofuels production, land use and land cover change scenarios and implications for green house gas emissions - An overall analysis on India.
Indonesia	Royal Haskoning	Business plan: CO2-emission reduction plan for L'Oréal Indonesia
Nederland	Arcadis B.V.	Feasibility study for the University of Twente campus closed water cycle
Nederland	Bluerise BV	OTEC prototyping & heat exchanger analysis
Nederland	Bruins & Kwast	Technisch economische screening Bruins en Kwast locatie te Goor
Nederland	Deerns Raadgevende Ingenieurs	Verduurzaming van het TUDelft verwarmingssysteem

Nederland	ECN - Energieonderzoek Centrum Nederland	An exploring study into the interaction of (ultra)short pulse laser light with thin film microcrystalline- and amorphous silicon layers on glass and metal substrate.
Nederland	Grolsch	HTHW temperature reduction
Nederland	Hitec Power Protection bv	Waste Heat Recovery in the Hitec UPS system using Heat Pumps
Nederland	HoST	Ontwikkeling datasheet houtgestookte WKK instalatie
Nederland	HoSt	Design of Plywood Biogas Digester
Nederland	IF Technology	Industrieel toepasbaar stoom geproduceerd met ultradiepe geothermie
Nederland	KEMA	
Nederland	Kema	Designing and implementation of the control system for the Remeha e-vita micro CHP with a full description and documentation
Nederland	KIWA Gas Technology	Haalbaarheidstudie demonstratie voor Groen Gas in voeding

Nederland	OTB Solar	Optimalisation Screenprinter Accuracy
Nederland	Philips DAP	Experimental study to investigate the principle of the reduced flow nozzle
Nederland	Suzlon Blade Technology B.V.	<ul style="list-style-type: none"> - Wind tunnel data processing - Power curve uncertainty analysis
Nederland	TNO	<ul style="list-style-type: none"> - Auto-Ignition Experiments in a Lab-Scale packed BED - Developing a realistic view on the availability of renewable resources for the road transport sector in the Netherlands in 2050
Nederland	Tri-O-Gen	A steady state evaporator model
Sint Maarten	Bedrijven Platform Milieu	“Be the change you want to see in the world”
South Africa	University of Johannesburg	Internship
South Africa	University of the West Cape / Eskom	Design of a Hydrogen Plant - H ₂ recovery from Underground Coal Gasification
Spain	Inabensa S.A.	Study of the design of a current energy powered buoy in the Guadalquivir River, Spain

Choices : (inter)national ?

	national	international
communication	easier, more intense	more difficult, less intense
costs	relative cheap; often reimbursements	often not reimbursements
preparation	less	more
culture	familiar	unfamiliar
climate	known	unknown
knowledge	MSc level is familiar	MSc less familiar



Good luck !

and enjoy :-)