

KnowledgeEngineering@Work

Study and work in the era of Data Science



[Intro movie](#)

What is KE@Work?

- Special path in the Bachelor Data Science and Knowledge Engineering in years 2, 3
- Part of the honours program; only for excellent and motivated students
- 2 year study/work program with a company/organization in the region
- Students combine work and study on a 50/50 basis
- Students receive ECTS credits and monthly “internship” fee
- Quality control and supervision by academic staff
- 3-Party contract with fixed fees (amount under revision)



Main features of KE@Work

- **BY2: no classes scheduled on Wednesday and Thursday**
- **BY3: no classes scheduled on Tuesday and Wednesday**
- **Project weeks in period 3 and 6, students work full time**
- **Resit weeks, students work full time**
- **Holidays: students continue to work**
- **KE@Work replaces 3 projects**
- **Students write bachelor thesis at company (on topic relevant for company)**

KE@Work advantages (businesses)

- Easy access to talented and scientifically trained programmers/modellers
- Long term professional relation with relatively inexpensive student workers
- Flexible young student workers, adjustable to the needs of the business
- Student worker can address structural projects within the business
- Student worker can operate more and more independently over time
- Quality control and supervision by UM-staff
- Easy access to scientific advice



KE@Work advantages (university)

- Higher student inflow by attractive and exceptional program
- Business feedback to maintain cutting edge study content
- Reimbursement of supervision costs
- Paving the way for local research collaboration



KE@Work advantages (students)

- Acquire relevant “work” experience
- On real-life science applications
- While enjoying expert supervision
- And being part of a professional team
- As a paid intern
- Whose work is also awarded in ECTS



KE@Work already 57 contracts signed:



KE@Work numbers

14 projects started in 2014/2015, **10** completed

12 projects started in 2015/2016, **11** completed

18 projects started in 2016/2017, **14** to be completed soon

13 projects started in 2017/2018, **12** up and running

25 projects expected to start in 2018/2019

130 students started the bachelor program last September

31 nationalities

30 percent are female

KE@Work timeline: January-March

- Student selection based on grades and motivation
- Submission of short project proposal (½ A4)
- Deadline: March 31, 2018



KE@Work timeline: April-May

- Kick-off meeting: pitches
- Students indicate preferences
- Speed dates: MATCH!



KE@Work from a student's perspective



[Movie clip Nathan](#)

Any questions?



Main features of KE@Work

2015 – 2016		Schedule 2.4 Bachelor programme								Version 07-03-2016	
1/2 – 1/4		Monday		Tuesday		Wednesday		Thursday		Friday	
Week	Time	Course	Room	Course	Room	Course	Room	Course	Room	Course	Room
Week 1 Mo: 1/2	08:30 – 10:30			PS	Tapijn, building Z					MM	1.001 + 2.009
	11:00 – 13:00			MM	Tapijn, building Z	PO *	0.015			HCI	Tapijn, building Z
	13:30 – 15:30	TCS	Tapijn, building Z	TCS	Tapijn, building Z					Thesis info #	0.015
	16:00 – 18:00	HCI	Tapijn, building Z								
Week 2 Mo: 15/2	08:30 – 10:30									MM	1.001 + 2.009
	11:00 – 13:00			MM	Tapijn, building Z	P	0.001 SSK39			MM	Tapijn, building Z
	13:30 – 15:30	TCS	Tapijn, building Z	HCI	Tapijn, building Z						
	16:00 – 18:00	HCI	Tapijn, building Z	TCS	Tapijn, building Z						
Week 3 Mo: 22/2	08:30 – 10:30			PS (group 1)	0.009	PS (group 2)	0.009			MM	1.001 + 2.009
	11:00 – 13:00			MM	Tapijn, building Z	P **	0.001 SSK39			MM	Tapijn, building Z
	13:30 – 15:30	TCS	Tapijn, building Z	HCI	Tapijn, building Z						
	16:00 – 18:00	HCI	Tapijn, building Z	TCS	Tapijn, building Z						
Week 4 Mo: 29/2	08:30 – 10:30									MM	1.001 + 2.009
	11:00 – 13:00	TCS	Tapijn, building Z	MM	Tapijn, building Z	P	0.001 SSK39			MM	Tapijn, building Z
	13:30 – 15:30	TCS	Tapijn, building Z	HCI	Tapijn, building Z						
	16:00 – 18:00	HCI	Tapijn, building Z	TCS	Tapijn, building Z						
Week 5 Mo: 07/3	08:30 – 10:30									MM	1.001 + 2.009
	11:00 – 13:00	TCS	Tapijn, building Z	MM	Tapijn, building Z	Seminar	Tapijn, building Z			HCI	Tapijn, building Z
	13:30 – 15:30	TCS	Tapijn, building Z	TCS	Tapijn, building Z	P	0.001 SSK39				
	16:00 – 18:00	HCI	Tapijn, building Z	HCI	Tapijn, building Z						
Week 6 Mo: 14/3	08:30 – 10:30			PSAR	Tapijn, building Z					MM	1.001 + 2.009
	11:00 – 13:00	TCS	Tapijn, building Z	MM	Tapijn, building Z	P	0.001 SSK39			MM	Tapijn, building Z
	13:30 – 15:30	TCS	Tapijn, building Z	HCI	Tapijn, building Z						
	16:00 – 18:00	HCI	Tapijn, building Z	TCS	Tapijn, building Z						
Week 7 Mo: 21/3	08:30 – 10:30									Good Friday	
	11:00 – 13:00	MM \$\$	Tapijn, building Z	MM	Tapijn, building Z			PFP *	2.015		
	13:30 – 15:30	TCS	Tapijn, building Z	TCS	Tapijn, building Z						
	16:00 – 18:00	HCI	Tapijn, building Z								
Week 8 Mo: 28/3		Easter break (No exams)		Exams		Exams		Exams		Exams	

Main features of KE@Work

Year 2			
	Weeks/Block	Days/Week at Company	Days/Week at UM
Block 1	7	2	3
	1	0	5
Block 2	7	2	3
	1	0	5
Block 3	3	4	1
	1	0	5
Block 4	7	2	3
	1	0	5
Block 5	7	2	3
	1	0	5
Block 6	3	4	1
	1	0	5
Other	12	3,5	1,5
# Weeks	52	122	138

Year 3			
	Weeks/Block	Days/Week at Company	Days/Week at UM
Block 1	7	2	3
	1	0	5
Block 2	7	2	3
	1	0	5
Block 3	3	4	1
	1	0	5
Block 4	7	2	3
	1	0	5
Block 5/6	11	4	1
	1	0	5
Other	7	4	1
August	5	0	0
# Weeks	52	126	109

Balance in Days	
At Company	At UM
248	247
50%	50%