



Evaluation of the internship by the student

To be used in the Master's Programmes: 'Mechanical Engineering' and 'Sustainable Energy Technology'

Student name & number: ... (...) NGUYEN, M.D. (Duc), s1630512

Specialisation: ... TFE

Internship provider: ... SKF B.V.

Department: ..LUBRICATION & TRIBOLOGY

City & country: ..., ... NIEUWEGEIN, THE Netherlands

Training period: ... till and including ... 1 JAN 2017 - 1 APR 2017

0. Report

A paper copy of the report has been handed over at Oct 4, 2017 (date) to Prof.dr.ir. C.H.Venner (name).

A digital version has been or will be submitted at (date).

Title of the report (please write the title even in case the report itself has not been submitted due to very strict confidentiality rules):

CFD Feasibility of oil flow around a bearing ball-raceway contact with Star-CCM+©

Keywords regarding assignment (use the same ones as you have used in your abstract):

CFD, Tribology, EHL, starvation, free surface flow, interface-capturing method. Grease, grease life, single contact

1. Content

1-1. What was your assignment about?

Computational Fluid Dynamics (CFD) numerical simulation oil flow around a bearing ball-raceway contact with Star-CCM+©

1-2. Which activities did you have to do for this?

Reading literature, developing physic model, obtaining gaining experience with simulation package, analysis and post processing CFD the results with MATLAB, developin prediction model

1-3. Was the assignment in line of the subject of your specialisation?

yes no explanation:

1-4. In which profile fits the assignment?

research & development design & construction organisation & management

it doesn't, namely:

1-5. Is this the same profile you have chosen for your specialisation?

yes *no*

1-6. Was the assignment suitable for you, regarding pre-knowledge and/or level?

yes *no*

explanation:

1-7. Did you had enough knowledge to carry out the assignment?

yes *no*

If not, what knowledge did you miss and how did you acquire it?

1-8. How did you like the assignment?

very good *not good at all*

explanation:

1-9. Did you have to give a final presentation of your assignment at the company / institution?

yes *no*

2. Internship provider

2-1. Did you receive sufficient support with respect to the content of the assignment by your daily supervisor?

sufficient *insufficient*

explanation:

2-2. How do you characterise in general your daily supervisor?

good *bad*

explanation:

2-3. Please tick what is applicable to you:

	<i>fully agree</i>				<i>don't agree at all</i>
- I have found my niche during the internship	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- I worked in a team	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- the relationship between me and my colleagues (not my supervisor) was good	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- I've gained insight in working in a large organisation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
- I've gained insight in the organisational structure of the company / institution	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2-4. Did you receive any remuneration?

yes *no*

If yes, may we ask how much? confidential

2-5. Did you receive any financial compensation in kind, such as accommodation?

yes *no*

If yes, may we ask how what? housing accomdation is offered but I had my accoomadtion in prior prorir to the start of the internship

2-6. Do you think this company is suitable for 2nd year Master students to do their internship?

yes *no*

explanation:

3. Curriculum/information

3-1. Please tick what is applicable to you (choose na in case you weren't present or in case you did not see/read the concerned text):

	<i>fully agree</i>					<i>don't agree at all</i>	
- the internship lunch meeting was useful	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	na
- the text on "www.utwente.nl/me/general_information/internship_me.doc" was useful	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	na
- the information on the Blackboard site for the internship was useful	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	na

explanation:

3-2. What do you think of the position of the internship in the curriculum? (at the beginning of the 2nd year, in between course work and master's assignment)

too early *exactly right* *a bit late*

explanation: should be after MSc thesis (3 last month of the Msc program)

3-3. How often did you have contact with:

	<i>very often</i>					<i>very little</i>
the Student Mobility Centre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
the UT supervisor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

3-4. Was the support you received from the university's side sufficient for you?

	<i>more than sufficient</i>					<i>way too little</i>
Student Mobility Centre	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
UT supervisor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

explanation:

4. Result

4-1. Did the internship give you new insight into:

	<i>a lot</i>			<i>none at all</i>	
the programme	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
the master's assignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
the professional field	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
your personal goals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

explanation:

4-2. What is the most important aspect you learned from your assignment?

research methodology

4-3. What has the value of the internship? (you may refer to answers to other questions)

a. generally speaking:

gain practical perspective of research methodology

b. with regard to using your knowledge which you acquired in all the courses you have done:

enhance knowledge in CFD

5. Organisation

5-1. When did you start searching actively before you actually started with the internship?

3 months before

5-2. How did you find this internship?

contact of:	<input checked="" type="checkbox"/> head of research	<input type="checkbox"/> other UT staff member, namely
via Blackboard:	<input type="checkbox"/> example	<input type="checkbox"/> advertisement
via:	<input type="checkbox"/> database SMC	<input type="checkbox"/> own network (family, friends, ...)
	<input type="checkbox"/> internet	<input type="checkbox"/> agency, namely
	<input type="checkbox"/> other, namely	

5-3. Who arranged everything for the internship?

<input type="checkbox"/> me	<input type="checkbox"/> mainly the company / institution
<input checked="" type="checkbox"/> head of research	<input type="checkbox"/> other UT staff member, namely
<input type="checkbox"/> other, namely	

5-4. If applicable: who arranged your accommodation ?

<input checked="" type="checkbox"/> me	<input type="checkbox"/> mainly the company / institution
<input type="checkbox"/> other, namely	

6. In case you have gone abroad:

6-1. Language

- a. What was the language of the country ?
- b. What was the language in which you communicated most ?

6-2. Did you apply for a scholarship (at UT and/or external suppliers)?

yes *no*

Which one(s)?

6-3. Did you have to apply for a visa?

yes *no*

If so, what were your experiences?

6-4. What are the most remarkable cultural differences with the Dutch culture which you have observed ?

6-5. Did you have enough free time before or after the internship to discover the city and/or the country? If so, what did you do ?

6-6. Do you have any 'tips & tricks' for fellow students who are interested to go for an internship in this country and/or this internship provider, which have not been dealt with in one of the previous questions?

Finally:

7.1. To improve the service towards students who are looking for an internship, we would like to publish the answers to the questions 1.1, 1.2, 1.4, 1.8, 1.9, 2.4 (without the amount), 2.5 t/m 2.7, 5.1 t/m 5.4 en 6.1 t/m 6.6 on Blackboard. Do you have any objections against this?

yes *no*

7.2. Do you allow us to mention your name and email-address to fellow students who would like to contact you regarding your experiences, either on Blackboard or by email ?

yes *no*

Thank you for filling in this form!

City Enschede, date Nov 6, 2017 , signature

