

# Engineering Role Identifier

This questionnaire is meant to find out in which roles you are feeling comfortable and which roles you may still want to develop in your work environment or at Delft University of Technology. You may already have developed several roles and therefore score higher on more than one. None of the answers is right or wrong and therefore answer the statements as honest as possible. If the statement is not at all (NAA) applicable score a 1, if the statement is very much so (VMS) score a 4.

<b>Background info</b>	
<b>Name:</b>	
<b>Educational Background/Discipline</b>	
<b>Working Experience</b>	

1. NOT Applicable At All

2.

3.

4. Very Much So

	Statement	naa			vms
1	I tend to focus on the optimisation of technology using scientific research	1	2	3	4
2	I like to come up with divergent and innovative ideas, driven by societal, market and customer trends	1	2	3	4
3	I find it hard to translate scientific developments into business propositions	1	2	3	4
4	I tend to focus on developing innovation for industry and society	1	2	3	4
5	I like to work independently	1	2	3	4
6	I feel inspired by the role of the global and local environment conditions and the cultural, legal and political aspects of it.	1	2	3	4
7	I'm seeking elegant and robust solutions to complex and high impact problems identified in the engineering process	1	2	3	4
8	I like to work structured and systemically	1	2	3	4
9	I am eager to learn every day and gain my in-depth knowledge	1	2	3	4
10	I am able to see beyond the situation, to look back and construct the road ahead	1	2	3	4
	<b>PLEASE TURN OVER</b>				

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11	My ambition is to initiate new development and to bring solutions to the market	1	2	3	4
12	I am strong in building commitment amongst people through engagement, in joint solutions focused activities	1	2	3	4
13	I tend to focus on the life cycle of technology, integrating sub-components into larger systems for optimisation	1	2	3	4
14	It is my goal to explore and develop, complete and realistic solutions in line with the context of the project.	1	2	3	4
15	I feel challenged by the communication with a diversity of people due to complex systems in interdisciplinary fields and across (disciplinary) language fields	1	2	3	4
16	I like to define the interaction of components in a process, and to bridge the gap between different stakeholder requirements to bring those components together.	1	2	3	4
17	I tend to work very pragmatic, organised, and have a great sense of responsibility	1	2	3	4
18	I try to identify and understand the interactions between engineering systems and people in the social, cultural, environmental, commercial, legal and political contexts in which these systems operate, and the positive and negative impact there-off	1	2	3	4
19	I like to work in interdisciplinary teams to establish common ground for the creation of different solutions	1	2	3	4
20	I am sensitive to policy issues bearing on the success of a product, service, strategy, etc.	1	2	3	4
21	I tend to manoeuvre between all the different values, norms and regulations to make the implementation of technological renewal a success.	1	2	3	4
22	It is my goal to become an expert in my field and share knowledge with science and industry	1	2	3	4
23	I am curious and contextualise from global to local conditions and provide or generate adaptive solutions	1	2	3	4
24	I am open minded, empathic and I like to listen to people opposing ideas	1	2	3	4
25	I have a strong sense, for values driving the decision- making process in engineering.	1	2	3	4
26	I like to use my networking skills and become a valuable leader	1	2	3	4
27	Creating conceptual solutions to strategic problems is my forte	1	2	3	4

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28	I like to have intensive negotiations and solve ongoing conflicts of interests	1	2	3	4
29	I relish the excitement that comes from building or creating something new	1	2	3	4
30	It is my goal to identify opportunities for innovative solutions matching customer needs in society and industry	1	2	3	4
31	I tend to focus on the development and implementation in an international context	1	2	3	4
32	I am happy to perform research and experimentation to create new knowledge	1	2	3	4

	Statement	Score	Statement	Score	Statement	Score	Statement	Score
	1		13		4		31	
	22		14		30		18	
	3		15		24		21	
	5		16		2		28	
	32		17		11		26	
	8		7		27		6	
	9		19		12		23	
	10		25		29		20	
<b>Total</b>								
<b>Results</b>	Role 1		Role 2		Role 3		Role 4	

## Role 1. Specialist

As a specialist, you are always looking at optimisation and fundamental renewal of technological and scientific developments, your goal is to create and impart new knowledge and become an expert in what you are researching. You like to get in depth knowledge and learn something new in your field every day. It is difficult for you to translate the scientific and technological developments into business propositions, but that is not your primary aim. You rather look beyond a specific situation to develop new knowledge from scientific facts known to future research questions. As a specialist, you like to work independently, to research and experiment and find new knowledge in a structured and systemic way.

## Role 2 Systems Integrator

You are focused on the entire life cycle of technology, integrating sub-components into larger systems for optimisation. You prefer to explore and develop, complete and realistic solutions in line with the context of a project. A challenge in bridging the gap between different stakeholder requirements to bring these components together, is the communication with a diversity of people, languages and difference in the systems. Equally, working with specialists and other interdisciplinary professionals appeals to your communication skills to make elegant and robust solutions to complex and high impact problems identified in the engineering process. Therefore, you tend to work very pragmatic, organised, and have a great sense of responsibility. My asset is that I have a strong sense, for values driving the decision- making process in engineering

## Role 3. Front End Innovator

Your ambition is to initiate new developments and to bring solutions to the market. It is your goal to identify opportunities for innovative solutions matching customer needs in society and industry. Your main focus is on developing innovations for industry and society. You like to come up with divergent and innovative ideas and are driven by societal, market and customer needs. As a front-end innovator, you are empathic and I like to listen to people opposing ideas. You are strong in creating conceptual solutions to strategic problems, in building commitment amongst people through engagement in joint solutions focused activities and you relish the excitement of building something new together.

## Role 4. Contextual Engineer

You continuously try to identify and understand the interactions between engineering systems and people in the social, cultural, environmental, commercial, legal and political contexts in which these systems operate, and the positive and negative impact there-off. You feel inspired by the role of the global and local environment, conditions and the cultural, legal and political aspects of technological problems. You are curious and contextualise from global to local conditions and provide or generate adaptive solutions relevant for development and implementation in an international context. As you tend to manoeuvre between all the different values, norms and regulations.. you have become sensitive to policy issues bearing on the success of a product, service, strategy, etc. You like to have intensive negotiations and solve ongoing conflicts of interests and you like using your networking skills, to become a valuable leader.