

BIJLAGE E - Formulier Programma van Eisen NGS Naturalis

In deze bijlage is het Programma van Eisen opgenomen voor deze aanbesteding. Inschrijver dient voor elke eis aan te geven of aan de desbetreffende eis wordt voldaan. Indien aan een of meer eisen niet kan worden voldaan, wordt de inschrijving uitgesloten voor verdere deelname aan de aanbestedingsprocedure.

In de kolom “**J/N**” dient Inschrijver aan te geven middels “**J**” dat aan de eis kan worden voldaan, of middels “**N**” dat niet aan de eis kan worden voldaan.

Inschrijver dient vervolgens dit formulier rechtsgeldig te ondertekenen en toevoegen aan zijn Inschrijving.

#	Eisen	J/N	Toetsing
1	Read length options are 2x150 bp, and 2x300 bp		Inschrijver dient deze eis aan te tonen met aanvullende documentatie.
2	The System must be able to run different bp sizes on the same machine		Inschrijver dient deze eis aan te tonen met aanvullende documentatie.
3	Minimum number of reads per run is 300M		Deze eis wordt getoetst met de test run (5.6.4 'Uitnodiging tot Inschrijving')
4	Minimum output per run is 180Gb		Deze eis wordt getoetst met de test run (5.6.4 'Uitnodiging tot Inschrijving')
5	Q30>85%		Deze eis wordt getoetst met de test run (5.6.4. 'Uitnodiging tot Inschrijving')
6	The System is able to run paired-end, dual indexed (IDT10) short-read sequencing sequences		
7	The System is able to sequence samples with the following adapter sequence: i5: 5'AATGATACGGCGACCACCGAGATCTACAC-IDT10index-ACA CTCTTTCCCTACACGACGCTCTTCCGATCT 3' i7: 5'CAAGCAGAAGACGGCATACGAGAT-IDT10index-GTGACTGG AGTTCAGACGTGTGCTCTTCCGATCT 3'		

8	Output files must be in demultiplexed quality filtered FASTQ format		
9	The System is a benchtop type sequencer and takes up only limited space. Elevator limitations are 900 mm (width) x 2300 mm (height) x 2000 mm (depth). The load capacity of the elevator is 1000 kg.		
10	The System is able to perform secondary on-board analyses		
11	The System must have minimum on-board storage of data for 2 runs		
12	The System can be connected to an IP network using an RJ45 connector supporting the TCP/IP protocol		
13	The System has the ability to copy/move data to another storage location within the IP network		
14	The System has the ability to automate the copying of the above mentioned data using a scheduled task or an API call		
15	The System supports the "S3" protocol		
16	The System is able to perform minimum 3 PE 300 bp runs per week		
17	The System is able to analyze up to 2500 individual samples per run		
18	The System has on-deck cluster generation or flow cell surface chemistry		
19	Contractor provides training and implementation for a minimum of 5 users		
20	A successful IQ/OQ/PQ (PhiX run) is included in the implementation		
21	The System provides clear instructions for use and has a "help" feature		Inschrijver dient deze eis aan te tonen met aanvullende documentatie.
22	The helpdesk is available on working days from 9:00 to 17:00		
23	Contractor provides onsite response within 3 business days		
24	Repair parts, labor and travel are included in the maintenance fee		
25	Contractor performs the necessary hardware and software updates		
26	Contractor replaces reagents free-of charge in case of System failure		
27	Contractor provides remote support (of-site troubleshooting on the instrument) when necessary		

28	Naturalis purchases the required chemicals according to its needs (on demand). Naturalis has no purchase obligation. Both order on demand and standing orders are possible		
29	After an update or upgrade, the contractor has the chemicals and flowcells, which were used prior to the update/upgrade, available for at least another year		
30	Contractor keeps the system secure by providing security updates when system vulnerabilities are discovered for at least 10 years after delivery of the System		
31	Contractor provides (and implements) security updates as soon as possible after the update becomes available.		
32	Contractor keeps spare parts available for at least five (5) years after delivery of the System		
33	The System is able to perform >120.000 reads per sample (x 2304 samples = >277M reads) after data QC		Deze eis wordt getoetst met de test run (5.6.4 'Uitnodiging tot Inschrijving')
34	Contractor has the System fully operational within three months from the effective date of the Contract. (Fully operational = all test runs are done, all errors are resolved. Sequencer can perform sequence runs and deliver data according to specifications and can be fully utilized)		
35	For the test run (paragraph 5.6.4 'Uitnodiging tot Inschrijving'), Tenderer has a next generation sequencer like the one they are offering for this contract, including the necessary support staff and experts, available at a test location (preferably as close to Leiden as possible) during the period September 16 to 30 September 2024.		
36	Inschrijver dient samen met zijn Inschrijving duidelijke instructies in over hoe de sequencing run voor te bereiden en waar de testlocatie is.		Inschrijver dient instructies in te dienen met Inschrijving

Voor akkoord	
Organisatie	
Naam rechtsgeldig vertegenwoordiger	
Functie rechtsgeldig vertegenwoordiger	
Datum	
Handtekening	

