


PHD FELLOWSHIP STRATEGIC BASIC RESEARCH EVALUATION/ score grid with scoring descriptors - INTERVIEW
PHD FELLOWSHIP: SCORING DESCRIPTORS CRITERION "CANDIDATE" (INTERVIEW)

0	1	2	3	4	5	6	7		
Unacceptable	Weak	Fair/Reasonable		Good/very good		Excellent/outstanding			
<p><i>During the interview, candidates are assessed on their potential to develop towards an independent researcher with proper reasoning skills and a critical mindset. Scientific knowledge and project insight are also key elements in the evaluation. Descriptions in the score grid ("potential", "competent", "knowledge", "skills", "mindset", ...) implicitly also take into account the evaluation findings of the preselection phase. SB candidates should as well reveal potential competences on strategic innovation oriented thinking, including some economic insight and positioning of their research.</i></p>									
<p>1.a Potential competence as an independent doctoral researcher (reasoning skills and critical mindset, scientific knowledge and project insight)</p>									
<p>One or more of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lack of the inherent qualities required of a doctoral researcher. Reasoning skills and critical scientific mindset are below par. Not even strict guidance or supervision would allow to adequately compensate for this; <input type="checkbox"/> clear gaps in basic knowledge of the research area. Virtually no insight into the aim and approach of the project. 	<p>One or more of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Research skills are present: with close supervision, able to obtain a PhD. Reasoning skills and critical mindset below average and to be developed further; <input type="checkbox"/> (just) sufficient basic knowledge to undertake the PhD project. Limited insight into the relevance of the proposed research approach. 	<p>One or more of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Research skills present, candidate is able to carry out research relatively independently. Lacks some maturity, but is motivated. Relatively good reasoning skills but less critical attitude. <input type="checkbox"/> The candidate has sufficient basic knowledge within the field of research. He/she has a rather good insight into the relevance of the proposed research approach. 	<p>ALL of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Motivated and (potentially) competent independent researcher. (Very) good reasoning skills and a good critical scientific attitude. Presents new concepts in a meaningful way. <input type="checkbox"/> Solid basic knowledge within own field of research, but less knowledgeable outside this field. Good insight into relevance of proposed research approach. 	<p>ALL of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Very convincing and driven candidate with great potential as researcher, very good reasoning skills and ditto critical scientific mindset. Presents innovative, original concepts in a convincing and substantiated fashion. <input type="checkbox"/> Excellent grasp of own field of research, knowledgeable in areas outside. Excellent insight into the relevance of the proposed research approach and positioning of project. 					
<p>1.b Potential competence as a strategically thinking and innovation-oriented researcher</p>									
<p><input type="checkbox"/> No insight in, or vision of the economically application potential of the project.</p>	<p><input type="checkbox"/> Limited insight and vision of potential applications. Additional efforts are needed for the candidate to place his/her doctoral research in a context of economically oriented innovations.</p>	<p><input type="checkbox"/> Rather good interpretation of the possible applications. Insight and vision of the strategic dimension towards an economic finality needs to be developed further.</p>	<p><input type="checkbox"/> Good insight into the application potential and possible economically relevant innovations. Able to place the strategic importance of the project and the research approach. Notions of IPR issues, market players in the field, etc.</p>	<p><input type="checkbox"/> Driven potential 'innovator'. Very good insight and broad vision of the possible applications and their economic relevance. Able to accurately position and substantiate the strategic importance of the project, taking into account valorization, IPR, market, ...</p>					



PHD FELLOWSHIP: SCORING DESCRIPTORS CRITERION "PROJECT" (PRESELECTION + INTERVIEW)

0	1	2	3	4	5	6	7
Unacceptable	Weak	Fair/Reasonable		Good/very good		Excellent/outstanding	
2.a Scientific quality, relevance and challenge, originality <i>A PhD project is scientifically challenging and relies on a proper and focused research question. It should significantly contribute to the current international state-of-the-art. To what extent is the proposal original and will it generate knowledge that goes beyond the state-of-the-art (e.g., novel theories, concepts or approaches, new methods, ...)?</i>							
One or more of the following items apply: <input type="checkbox"/> The project is out of scope : it does not comply with the scope of the panel it was submitted to. <i>(preselection only)</i> <input type="checkbox"/> Project lacks an intellectual (PhD-worthy) challenge: an in-depth research question is missing	One or more of the following items apply: <input type="checkbox"/> Research question and challenge limited or less relevant, <input type="checkbox"/> the research objectives lack focus. PhD worthiness is on the low side, <input type="checkbox"/> the project is rather a catch-up effort relative to the state-of-the-art.	One or more of the following items apply: <input type="checkbox"/> Scientifically relevant project, rather high quality, and sufficiently challenging as PhD-research. The research is less well focused. <input type="checkbox"/> The project brings less pronounced added value to international state-of-the-art	ALL of the following items apply: <input type="checkbox"/> Original and significant contribution to the international state of the art. <input type="checkbox"/> High-quality basic research, with significant scientific challenges (doctoral level).	ALL of the following items apply: <input type="checkbox"/> Highly ambitious and original project of potentially groundbreaking nature and large scientific impact. <input type="checkbox"/> Very high level of scientific risks. Clear inventive and challenging ideas, novel concepts and strategies.			
2.b Quality of the research methodology and feasibility of the project <i>To what extent is the proposed research methodology appropriate to achieve the goals laid down in the research project? To what extent is the outlined scientific approach feasible, bearing in mind a personal grant with a duration of four years? Finally the fit in the research team may be of importance (guidance and access to expertise).</i>							
One or more of the following items apply: <input type="checkbox"/> Quality of research approach and planning is below par. <input type="checkbox"/> Research activities are too limited for a four-year grant period. <input type="checkbox"/> Project not feasible because of too many planned activities.	One or more of the following items apply: <input type="checkbox"/> Methodology and planning are flawed. Intrinsic feasibility is low , <u>or</u> the objectives are formulated too vaguely to evaluate feasibility. <input type="checkbox"/> Project does not fit to an individual PhD project. <input type="checkbox"/> Ties with/dependence of other researchers, groups or external partners may jeopardize feasibility.	<input type="checkbox"/> Research methodology reasonably well elaborated, but less well substantiated. Given some adjustments and risk control, project implementation appears to be feasible.	ALL of the following items apply: <input type="checkbox"/> Adequate, substantiated research methodology to achieve targeted results, logical set-up and realistic planning: feasible within the four-year time frame. <input type="checkbox"/> Good fit of project in research group activities, giving candidate access to necessary expertise.	Requirements as in "very good", AND <input type="checkbox"/> thorough identification of the research risks, with alternative research strategies and "fall back" research options.			


PHD FELLOWSHIP SB: SCORING DESCRIPTORS CRITERION “APPLICATION POTENTIAL” (PRESELECTION + INTERVIEW)

0	1	2	3	4	5	6	7
Unacceptable	Weak	Fair/Reasonable		Good/very good		Excellent/outstanding	
<p>Strategic basic research in the context of a PhD grant stands for challenging and innovative research (at PhD level), which, if successful, may in the longer term lead to innovative applications with economic added value (for specific companies, for a collective of companies, or a sector, or in line with the Flanders 2025 transition areas (socioeconomic benefits). Societal impact should always be linked to a (in)direct (macro)economic benefit. E.g. cost reductions in health care, higher education level, environmental impact... should be positioned in an economic context.</p>							
<p>3.a Strategic importance of the research approach for the anticipated applications (= relevance)</p>							
<p>Does the research –if successful– contribute to the (on the long term) realization of the anticipated applications? Is the research approach the proper one to this purpose?</p>							
<p>One or more of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Strategic dimension is lacking, no orientation towards an economic finality; <input type="checkbox"/> apparent mismatch between application potential and project content. 	<p>One or more of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Strategic dimension is present, but project is not well adapted to the anticipated utilization. <input type="checkbox"/> Strategic dimension based on an assumption for which there is as yet little concrete evidence. 	<p><input type="checkbox"/> The strategic focus of the project on economically relevant innovations is substantiated in rather broad terms. Research approach is reasonably or partially geared to the anticipated applications.</p>	<p>ALL of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The strategic focus on economically relevant innovations is clear, and well substantiated in the proposal. Suitable project approach to allow the anticipated utilization. 	<p>Requirements as in “very good”,</p> <p>AND</p> <ul style="list-style-type: none"> <input type="checkbox"/> Best possible approach to achieve the intended applications. The latter are clearly the driving force behind the implementation approach. <p>AND</p> <ul style="list-style-type: none"> <input type="checkbox"/> Project fits well in broader strategic basic research goals of the research group. 			
<p>3.b Strategic importance of the potential applications for possible users (= impact)</p>							
<p>Assuming the research approach is effectively geared towards applications: is there a significant impact for industry and economy, for possible (end-)users? Is the impact of the intended applications described in the project application credible and achievable?</p>							
<p>One or more of the following items apply:</p> <ul style="list-style-type: none"> <input type="checkbox"/> The anticipated application is not relevant for possible users nor is the proposed impact realistic; <input type="checkbox"/> the project is too strongly embedded in the strategic R&D horizon of a single company (cfr. <i>Baekeland programme at Flanders Innovation & Entrepreneurship - VLAIO</i>) <input type="checkbox"/> (Frank De Winne SB only) out of scope: no strategic importance for users in the space economy value chain. 	<p><input type="checkbox"/> Application potential may be real but of less economic relevance and limited impact for the identified possible users.</p>	<p><input type="checkbox"/> The anticipated applications are economically relevant, they have a potential impact on possible users. The proposal exhibits certain flaws or gaps in the identification and/or elaboration of the (potentially present) applications.</p>	<p><input type="checkbox"/> If successful, the project is very likely to effectively contribute to economically relevant innovations within the identified companies and/or sectors, or even new economic activities. These are clearly defined and interpreted.</p>	<p>Requirements as in “very good”,</p> <p>AND</p> <ul style="list-style-type: none"> <input type="checkbox"/> If successful, project could play a key role to disruptive innovations, implying substantial economic added value. Moreover, this goal is realistic. <p>AND (score 7):</p> <ul style="list-style-type: none"> <input type="checkbox"/> A successful project may lead to a substantial economic added value for Flanders 			