**ELbM Scholarship Selection Criteria for PhD Applicants (Online evaluation template)**

Important note: All PhD applicants are required to submit the following documents: Academic transcripts @ Masters & Undergraduate level, 4-page Curriculum Vitae; Certificates/Letter of Academic Awards; 2 Academic referee’s reports; Research proposal; and Motivation letter. The Table below identifies various items to be assessed in each document. All applicants should ensure that they address each of the items according to rubrics outlined in this selection criteria. **Total assessment score for PhD applicants is 20 points.**

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|  |  | Documents |  | Rubrics |
| 6.2.1 | Academic performance+ | Transcripts | Grades scored by applicants in undergraduate and postgraduate modules which are relevant to laser-based manufacturing projects (preference should be given to candidates who scored 50% and above) | 1 point for 70% and above  0.75 point for 60 to 69%  0.5 point for 50 to 59%  0 point for marks below 50% |
| Overall cumulative grade point average of applicant (at least CGPA of 3.5/5.0) | 1 point for CGPA 4.50  0.75 point for CGPA 4.00 4.49  0.5 point for CGPA 3.50 3.99  Conversion of degree classification |
| CV/Referee’s report/Certificate/Letter of Awards | Academic Awards: Scholarships, Dean’s list at undergraduate/postgraduate studies | 1 point for each academic award up to a maximum of 1 point |
| Journal or conference publications: To be checked with plagiarism software | 1 point for a journal publication up to a maximum of 1 point  0.5 point for each conference proceeding up to a maximum of 1 point |
| Referee's report | Communication skills, teamwork, Ability to undertake scholarly research  Prior research work in LbM project (An added advantage for both Masters & PhD applicants) , | 0.5 point for each item up to a maximum of 1 point. |
| Total (out of 5 points) | | | |
| 6.2.2 | Research proposal | Research proposal | Research proposal should incorporate the following items.  i. Introduction (provide background and motivation for undertaking research)  ii. Problem Statement  iii. Research Objectives  iv. Literature Review  v. Proposed Research Approach (applicants must describe stages/phases of how research will be executed)  vi. Table of Facilities (including location)  vii. Schedule of Activities  vii. References | Award 1.5 mark for each of the items (i) to (viii) as follows;  1.5 point for each item clearly addressed  1.0 point for each item fairly addressed  0 point for when any of the item is not addressed |
| Total (out of 12 points) | | | |
| 6.2.3 | Motivation | Motivation letter | Does the applicant clearly elucidate why he/she is applying for ELbM scholarship? | 1 point for clear explanation  0.5 point for fairly clear explanation  0 for no explanation |
| Does the applicant clearly elucidate why he/she has selected the proposed institution? | 1 point for clear explanation  0.5 point for fairly clear explanation  0 for no explanation |
| How the use of laser-based manufacturing impacts on the environment, energy utilisation, and resource efficiency e.t.c. | 1 point for clear explanation  0.5 point for fairly clear explanation  0 for no explanation |
|  | Total (out of 3 points) | | | |
| 6.2.4 | Language | (a) The research proposal (b) The motivation statement (c) The CV and (d) The advanced manufacturing for  sustainable development narrative | Consideration should be given to good command of English in writing when assessing  (a) the research proposal (b) the motivation statement (c) the CV and (d) the advanced manufacturing for  sustainable development narrative | Yes for good command of English language  No for poor command of English language |
| 6.2.5 | Disadvantaged group | Official documentation confirming how a candidate is disadvantaged | Confirmation of disadvantaged group. | Yes for confirmation with official document  No if an applicant cannot produce official document |
| Notes:  Academic performance+: The relevant knowledge areas (at Bachelor’s and Master’s level) consist of modules associated with the following: Materials science, Manufacturing engineering/technology, Production engineering/technology, Foundry technology, Product and materials characterisation; Metallurgy, Materials selection and economics. Where an applicant indicate interests to carry out a project that dwell on design application to laser-based manufacturing (LbM) technology, additional knowledge areas in engineering drawing/computer aided design/mechanical design will be considered in determining their suitability for admission. For research project proposals that aim to incorporate simulation and modelling activities, performance in modules related to simulation and modelling of materials and manufacturing processes will be considered as an additional criteria. | | | | |