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|--|---|------------------------|-----------------|
| Division of Mechanical Science and Engineering   | Research field  | Advanced Manufacturing | Lab. ID<br>ME07 |
| Laboratory web site  | <a href="http://manufac.w3.kanazawa-u.ac.jp/">http://manufac.w3.kanazawa-u.ac.jp/</a> |                        |                 |
| Research subjects  |   |                        |                 |
| <p>Researches of advanced manufacturing laboratory cover wide range of manufacturing technologies, such as subtractive, net shape and additive processes. The target materials are metals, brittle materials, difficult-to-machine materials, biomedical materials and others. Main research topics in our group focus on additive manufacturing (AM) with metals (powder bed fusion (PBF), wire arc AM (WAAM) and its combination), development of optimized process conditions and materials for AM, thermal stress cleavage of brittle material with laser beam, monitoring of manufacturing process, and theory construction for various type of polishing technologies.</p> |   |                        |                 |
| Master/Doctor course: Education policy, curriculum, typical activity in the laboratory   |   |                        |                 |
| <p>Almost all topics in advanced manufacturing laboratory are joined research with company, therefore all students need to select their themes from these. Research keywords are additive manufacturing, laser processing, monitoring of machining process, polishing, and so on.</p> <p>As for foreign students, we have a couple of foreign students, and all activities or correspondences in the laboratory are done in English. The laboratory is managed by a weekly labo-meeting which must be attended by staffs and all students, where all policies and practical financial supports for research are discussed and determined.</p>                                    |   |                        |                 |
| Daily life in the laboratory, etc.   |   |                        |                 |
| <p>Personal working desk is available for every student. All relevant students of undergraduate, Master, Doctor and post Doctor researchers share the laboratory rooms, and everyday free discussion on manufacturing processes or related topics are strongly encouraged. Many laboratory activities are organized like, welcome party for new comers, excursion, summer workshop, etc.</p>   |   |                        |                 |
| Message or comments by the laboratory faculty staffs   |   |                        |                 |
| <p>In our laboratory, many foreigners are getting Ph.D. I am looking forward to doing the research with you.</p>   |   |                        |                 |
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