# PhD Project

## Project Details

<table>
<thead>
<tr>
<th>Role</th>
<th>Faculty</th>
<th>Academic Unit in IITD</th>
<th>Email ID</th>
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</thead>
<tbody>
<tr>
<td>Supervisor 1</td>
<td>Dinesh Kalyanasundaram</td>
<td>Biomedical Engineering</td>
<td><a href="mailto:Dineshk.iitdelhi@gmail.com">Dineshk.iitdelhi@gmail.com</a></td>
</tr>
<tr>
<td>Supervisor 2</td>
<td>Deepak Kumar</td>
<td>CART</td>
<td><a href="mailto:dkumar@itmmec.iitd.ac.in">dkumar@itmmec.iitd.ac.in</a></td>
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</tbody>
</table>

## Project Title
Biocompatible and high scratch resistant coatings for dental and orthopaedic applications

## Project Summary
Most implant failures are directly related to poor coatings. Here, the candidate shall research upon various coatings and coating techniques for biocompatibility, better biotribo-corrosion properties and selective osseointegration.

## Project requirements (Student qualifications, experience required, etc)
- Masters or Bachelors in Mechanical or Materials Science Engineering
- Masters in Physics or Applied Physics

## Source of funding (IRD/FITT Project details, if any)
IRD Project (RP04101)

## Role of Faculty Members involved:

Prof. Deepak Kumar will guide the candidate in coating techniques
Prof. Dinesh Kalyanasundaram will guide the candidate in evaluating biocompatibility, biotribo-corrosion properties and osseointegration.