OKINAWA INSTITUTE OF SCIENCE AND TECHNOLOGY GRADUATE UNIVERSITY

Thesis submitted for the degree

Doctor of Philosophy

LATEX thesis proposal template

by

Jeremie Gillet

Supervisor: S. Upervisor Co-Supervisor: C. O'Supervisor

April, 2016

Declaration of Original and Sole

Authorship

I, Jeremie Gillet, declare that this thesis entitled LaTEX thesis proposal template and the

data presented in it are original and my own work.

I confirm that:

• No part of this work has previously been submitted for a degree at this or any other

university.

• References to the work of others have been clearly acknowledged. Quotations from

the work of others have been clearly indicated, and attributed to them.

• In cases where others have contributed to part of this work, such contribution has

been clearly acknowledged and distinguished from my own work.

• None of this work has been previously published elsewhere, with the exception of

the following: (provide list of publications or presentations, or delete this part). (If

the work of any co-authors appears in this thesis, authorization such as a release or

signed waiver from all affected co-authors must be obtained prior to publishing the

thesis. If so, attach copies of this authorization to your initial and final submitted

versions, as a separate document for retention by the Graduate School, and indicate

on this page that such authorization has been obtained).

Date: April, 2016

Signature:

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Abstract

LATEX thesis proposal template

Limit the abstract to as few words as possible. The abstract should always be less than one page long, and less than 400 words. Be aware that many online referencing systems only allow the first 200 words to be included. No figures or references should be presented. Avoid extensive technical and method details where possible. Should be readable to a literate science reader familiar with your general area, but not necessarily experts-only material. This will be published online within 3 months of award of the degree, as a minimum. The entire thesis must be published within one year, unless restrictions apply (as above).

Acknowledgment

Theses must acknowledge assistance received in any of the following areas:

- Designing the research
- Executing the research
- Analyzing the data
- \bullet Interpreting the data/research
- Writing, proofing, or copyediting the manuscript

Abbreviations

All abbreviations used in the thesis should be listed here, with their definitions, in al-

phabetical order. This includes trivial and commonly used abbreviations (at your own

discretion), but not words that have entered into general English usage (such as laser or

DNA). In particular, non-standard abbreviations should be presented here. This is an aid

to the reader who may not read all sections of the thesis.

PPT positive partial transpose

SRPT Schrödinger-Robertson partial transpose

V

Glossary

Dipole Blockade Phenomenon in which the simultaneous excitation of

two atoms is inhibited by their dipolar interaction.

Cavity Induced Transparency Phenomenon in which a cavity containing two atoms

excited with light at a frequency halfway between

the atomic frequencies contains the number of pho-

tons an empty cavity would contain.

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Nomenclature

- c Speed of light (2.997 924 $58 \times 10^8 \text{ ms}^{-1}$)
- \hbar –Planck constant (1.054 572 66 $\times\,10^{-34}$ Js)
- k_B Boltzmann constant (1.380 658 × 10⁻²³ JK⁻¹)
- Z_0 Impedance of free space (376.730 313 461 Ω)
- μ_0 Permeability of free-space $(4\pi \times 10^{-7} \text{ Hm}^{-1})$

	If desired, an	optional and sh	nort dedication may be included here.

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Introduction

This is the introduction. You might want to leave it unnumbered, as it is now. If you want to number it, treat it like any other chapter.

Chapter 1

Guidelines on the preparation of theses

These guidelines set out the organization and formatting requirements of the OIST PhD thesis, in order to assist students in the preparation of theses for submission. The academic requirements of the thesis are defined in the PRP in section 5.3.13, while the format of the submitted examination and publication versions of the thesis are described here.

This particular documents refers specifically a thesis written in LaTeX. As such, some points from the full guideline (for example page sizes) are not referenced directly here as they are already defined in this template. Some other points concerning specific pages (for example the abstract) are described in the specific pages themselves in this PDF.

1.1 Guidelines on the preparation of theses

Plagiarism and Fraud: Students are reminded that they must take all necessary precautions to avoid plagiarism and fraudulent misrepresentations of data.

Reproducibility: OIST is committed to openness in science, and a cornerstone of this is the concept of reproducibility. Your thesis should present all the data and methods necessary to allow complete repetition of the experiments and their results, and to allow expert review of your analysis of data. Accordingly, you must ensure that your methods are comprehensive, and that your data sets and code are available for subsequent review by lodging them in the OIST Institutional Repository or some other data repository or database, as appropriate.

Inclusion of Published Material: In some cases inclusion of published material as chapters is desirable. Normally, however, when published material is included in the thesis, it should be modified in order to remove redundancy and achieve a coherent narrative. It is essential to indicate clearly any portion of the thesis that duplicates parts of articles that were previously published by the candidate. The candidate must cite the article and indicate any parts of a section or chapter of the thesis that depend on the previously published article. This does not apply to previous documents such as thesis proposals and reports written as part of the candidate's research.

An appropriate level of independence on the part of the student is expected. If parts of the thesis are based on published work under joint authorship, the supervisor should provide a statement about the extent to which this is the candidate's own work, as part of the standard supervisor declaration.

When including material from publications in a thesis, students should be aware of the copyright policies of journals. It is recommended that students request journals to vary their normal copyright agreements to allow material from an article to be included in a thesis (as the thesis will be publicly available through the University's Library). If, for copyright reasons, material from previously published papers may not be included in the electronically published thesis, the electronically published thesis may cite papers that are already published.

1.2 Organization of chapters and sections

Title Page: This page is the first printed page, and can be duplicated in whole or part as the front cover in the final bound version.

Choice of Title: Select a descriptive and unique title that clearly communicates your research. Avoid brief or misleading titles. The title will be displayed on your graduation

testamur. The title should be unique within OIST, to distinguish your thesis from those of others working on similar topics.

Declaration of Original Authorship: You must declare that the work is your own, and original, by signing and including the declaration.

Co-authorship: Co-authors are not permitted on an OIST PhD thesis. All research and analysis should be your own work. Where co-authors have contributed to papers arising from the work, you should not include their data unless it is essential for the scientific narrative. In such cases, full disclosure of the contribution is required. Acknowledge any work performed by others, whether at OIST or outside OIST.

Acknowledgements, List of Abbreviations, Glossary, Nomenclature, Dedication, Table of Contents: Those are commented directly in the template. Glossary, Nomenclature, and Dedication pages are optional.

Main body: The main body may be arranged as a single body of material, divided into sub-sections of Introduction (including a statement of the problem), Methods, Results, Discussion, or if preferred, in chapters that each deal with a smaller part of the research, each one itself divided into sub-chapters of Introduction, Methods, Results, Discussion (or similar), as appropriate.

Reference List: Provide a complete numbered list of all material cited in your thesis using BibTeX or BibLaTeX.

Appendices: The printed versions of the thesis may include, as an appendix, published papers; unpublished manuscripts that have been submitted for publication; and manuscripts ready for, or very close to, journal submission. These should be placed immediately after the final pages of the thesis, and separated from the thesis itself by a single dividing page with the text: "Previously published articles associated with the research described in this thesis", or similar. These published papers are included solely for completeness of the bound thesis as a historical record of your achievement, and are for future reference of yourself and the supervisors. They will not be included in the on-line version of the thesis. Papers co-authored during the period of the thesis that do not

include material presented in this work should not be included.

Appendices and Supplementary Data: Unlike a journal article, no data or discussion may be presented separately as unpublished supplementary documents or data. Appendices should be used instead for material that is tangentially relevant to the thesis but does not fit in the main narrative. If you need to refer to large volumes of data that cannot be printed (such as an annotated genome, or a simulation with moving images), lodge the data on an OIST repository or a public database and provide the URL of the dataset in the thesis. (see also: Reproducibility, above.)

1.3 Formatting Requirements

Page size, Margins, Spacing, Justification, Pagination, Header, Fonts: those are already built-in the templates. Do not modify them.

Equations: Equations are considered to be part of the text; they should be formatted consistently throughout the thesis, following the advice of the student's supervisor.

Spelling: American spelling should be used.

Printing: Theses submitted for examination should be printed double-spaced on one side of a page only (so that when bound in temporary bindings, the right hand page is the printed page). Temporary bindings may use any reasonable white bond paper, in A4 size. Laser printing (in black ink wherever possible, and colour for images where necessary), should be used exclusively, rather than alternatives such as ink-jet, dye sublimation, or wax transfer (for durability of the print). Final bound copies should use acid-free paper (also known as archival paper) to ensure longevity of the thesis in the collection, and should be printed on both sides of the page (single-spaced, with adjusted margins).

Colors: Colors may be used in images and charts where necessary to enhance comprehension, but should not be used for normal text or headings. Avoid the exclusive combination of red and green for binary images, to assist those who have difficulty discriminating hues. All text should be in black unless color-coding is necessary for meaning

or contrast.

Figues, Tables, Images: Those are detailed in a later Chapter with examples.

Word length: No minimum word length is imposed on OIST graduate theses. However, be concise in your language and succinct in your expression. The average length of a PhD thesis will vary between fields and between authors, but typical PhD theses are 100-400 pages in length (approximately 20,000-80,000 words of main body text).

Citations: All papers that you reference in your work must be referenced in full using a style relevant to your field. Provide the full title, a complete list of authors, and the article location and year of publication in the same style for all papers. Use one of several styles you have been introduced to in previous writing. Refer to papers in the text by either a numerical superscript, a bracketed number or by reference to (Author et al., 1999). Be consistent in your citation style throughout all sections of your thesis. Provide a complete list of all papers, books, and proceedings cited in your thesis at the end of the main body of text. Do not include papers in this list that were not cited in the thesis. Reference manager software such as Endnote or similar programs that offer "Cite-While You Write" functionality can assist this process greatly if you are using Word. Use BibTeX or BibLaTeX if you are using LaTeX.

Citing one reference can be done like so: [1] and multiple references in one go like so [2–4].

Editing: The thesis should be entirely your own work. Minimal editing may be provided by your supervisor(s) or peers but only as a review of initial drafts. Do not seek assistance from OIST internal or paid external editing services, unless directed to do so by the Dean in revision stages.

1.4 Intellectual property and copyright

The student will retain copyright of the published work, in perpetuity. The student acknowledges that OIST remains the owner of the intellectual property generated by the

research presented in the thesis and that publication of the thesis under the author's copyright does not diminish this claim. The thesis will be published online in electronic form within one year of graduation.

1.5 Submission of temporary and bound versions

The thesis will be submitted first in printed form in a style formatted to assist the examination process (single side printing, double spacing, temporary binding). Three copies of the examination version must be bound in temporary form (using the comb binder available in the Graduate School office, or with a glued spine cloth). Soft plastic end covers may be used. This version should include (inserted after the thesis itself) any papers published during the tenure of the thesis that are relevant to the material therein, for the convenience of the examiners. A digital version of the same file in PDF (without the "published papers" appendix) must be submitted to the Graduate School at the same time as your printed version. This may be submitted using internal file-sharing provisions (eg, Filesender).

The submitted examination thesis should be accompanied by a Declaration from the Supervisor (see Appendix 4 for template). The purpose of the Declaration, which should be completed and signed by the thesis supervisor, is to acknowledge that the work was done in the laboratory of the supervisor, that any co-authors of included material have consented to such inclusion, and that there is no unauthorised use of material for which the copyright is held by other parties. The Declaration will be retained by the Graduate School, and will not be part of the thesis sent for examination or published later.

1.6 Examination Workflow

The two external examiners will review the written thesis and prepare a report. When the marked thesis is returned (with annotations) the student will be required to make the stipulated revisions, and must then confirm with the Graduate School that the revisions are accepted and complete within one month. The revisions of the thesis should be prepared in the same format as the examination copy. Once the revised version of the thesis is approved, the student will then be eligible to defend the thesis in an oral examination. Additional minor revisions (mostly text-based) may be requested after the oral examination, and should be completed as soon as possible. Theses with minor revisions completed should then be submitted electronically, as PDF, for approval. Once approved, no additional changes may be made. The final "publication version" of the thesis must be submitted as an electronic file in PDF format, double paged and single spaced (see above). Once the degree has been awarded, the electronic file will be published online by the Graduate School in the OIST Institutional Repository.

The student should also prepare a permanent bound version of the final publication thesis (essentially the same as the PDF with altered margins as needed) to present to the supervisor(s), according to the format described in this document. The bound version must be submitted before the degree may be awarded. The Graduate School will cover necessary costs for binding the supervisor copy (or copies).

Chapter 2

How to use the templates

This is a practical guide into how to use this template, by explaining the role of the different folders, Temporary_Thesis.tex and Final_Thesis.tex, the main file to compile the temporary version of the thesis and the final version respectively.

2.1 Folders

The main folder contains three folders detailed here:

- Images. This folder should contain all the images that you will use in your thesis. It can contain subfolders, for example one for each chapter. To include an image from the main text, use something like \includegraphics{subfolder/image.jpg} without worrying about the Images path.
- MainText. This folder contains a series of LaTeX files that form the main text: introduction, chapters, conclusion and appendices. The introduction and conclusion as they are now are not numbered, which creates a few difficulties with the headers of the thesis. Those are solved by including the commands \unnumberedchapter{} and \numberedchapter before including the files in xxx_Thesis.tex. If you want the introduction and conclusion to be numbered, re-write and treat them as regular chapters.

- Preamble. This folder contains a series of LATEX files with the pages that will appear before the main text. Please write (or copy and paste) your own text in those files and delete the dummy text when appropriate. The files are:
 - abbreviations.tex List of abbreviations. If the list goes over one page,
 create another table.
 - abstract.tex Abstract. Follow directions in the file.
 - acknowledgments.tex Acknowledgments. Follow directions in the file.
 - declaration.tex Declaration of Original and Sole Authorship. Only modify the last item. This page needs to be signed once printed.
 - dedication.tex Dedication (optional). Should only be a very few lines.
 - glossary.tex Glossary (optional). If the list goes over one page, create another table.
 - mydefinitions.tex Important This file should contain all the values relevant for the title page (name, thesis title, etc, which will be used automatically in the title and various preamble files), your bibliography style, all packages you need for your thesis and your custom definition and commands. Be careful of not importing a package that has already been imported in xxx_Thesis.tex, and be aware that some packages might interfere with each other.
 - nomenclature.tex Nomenclature (optional). If the list goes over one page,
 create another table.
 - physics_bibstyle.bst Bibliography style file modified by Jeremie Gillet in 2011 to suit his thesis. Might be suitable for physics. If you want to use another custom bibliography style, include the file in this folder.
 - Thesis_bibliography.bib BibTeX file containing your bibliography.

2.2 Temporary_Thesis.tex and Final_Thesis.tex

Those are the main files, the only ones that need to be compiled to build the thesie. Compile once with IATEX, once with BibTeX and finally twice with IATEX to get all the references right.

Let's go through each section and comment them briefly. The last section will emphasize the differences between the two files.

2.2.1 PACKAGES AND OTHER DOCUMENT CONFIGURA-TIONS

This section contains the minimum number of packages and definitions to compile the thesis. No line should be removed or modified.

2.2.2 ADD YOUR CUSTOM VALUES, COMMANDS AND PACK-AGES

This section should not be modified directly. Instead, your packages and definitions should be included in Preamble/mydefinitions.tex.

2.2.3 TITLE PAGE

Creates the title page. Do not modify.

2.2.4 PREAMBLE PAGES

Structures the style (header) for the preamble pages and builds them. Do not modify, except for deleting the optional preambles you might not want to include.

2.2.5 LIST OF CONTENTS/FIGURES/TABLES

Creates the different lists. Do not modify.

2.2.6 THESIS MAIN TEXT

Structures the style for the main text chapters and builds them.

The command \numberedchapter is only relevant for a transition between unnumbered sections and numbered sections, it does not need to be included between each chapter.

2.2.7 APPENDICES

Structures the style for the appendices and builds them. The appendices are numbered with letters but are structured like regular chapters.

2.2.8 BIBLIOGRAPHY

Builds the bibliography. The style of the bibliography can be defined in Preamble/mydefinitions.tex.

2.2.9 PUBLISHED ARTICLES

This last section add the PDF files of your previously published articles (or about to be published) to the thesis. You should only include PDF files provided by the publishing journal. This is strictly for the examiners' convenience in the temporary bound thesis, as for copyright reasons these files may not be published in the final version of the thesis.

2.2.10 Differences between Temporary_Thesis.tex and Final_Thesis.tex

There are two main differences between the two versions.

The first difference is that the final version does not contain the published articles for copyright reasons.

The second difference is in the document style: page size, header and line spacing are different This might create small issues, such as page breaking with large tables, images or captions, when compiling the same content with the two xxx_Thesis.tex files.

Chapter 3

Figures, tables and images

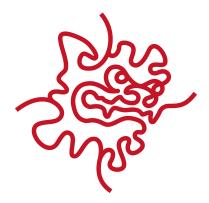
3.1 Figures

Figures should appear as close as possible to the first mention of them in the text. All figures must be referred to in the text by either a parenthetical mark-up (Figure 3.1) or a phrasing such as "Sequencing data, shown in Figure 3.1, shows that...". A parenthetical mention, but not an in-text mention, may be abbreviated as (Fig. 3.1). The number of the chapter should be part of the Figure number.

Figures must be accompanied by a caption that describes the material clearly and succinctly. Figure captions may start with a brief title in bold, which can then be referenced in the list of figures.



Figure 3.1: Short caption (if wanted). Full caption with all the details here.



This secret image won't be numbered and won't appear in the List of Figures because of the *

Table 3.1: Short heading for the List of Tables.

Parameter	Value
Δ	0, 150
α	85
ϵ	6
κ	6.8
γ	0.2

Full caption with all the details here.

Figures should not have captions that run across pages, as a general rule. If a figure and its caption will be larger than a page, consider rewriting the caption, or reorganizing the figure. If this cannot be avoided, the figure caption should continue on the immediate next page, with a reference comment at the start of the text to the fact that it is a continuation of the caption from the previous page. No other main body text should then appear on that page.

3.2 Tables

All tables should be referred to in the text by number (for example) "Table 3.1 describes all particles found in...". Tables may be printed in landscape mode rather than portrait mode, but must then be printed on a separate page (with continuing and sequential pagination). Tables may extend for more than one page, but should then have the table

Parameter	Value
Δ	0, 1500
α	850
ϵ	60
κ	68
γ	2

This secret table won't be numbered and won't appear in the List of Figures because of the \ast

header row repeated on each page. Do not use font sizes smaller than 9 point. Tables should have a heading and may have a caption. The number of the chapter should be part of the Table number.

3.3 Images

Images are vital to the presentation of scientific data. Ensure that all textual annotations are correctly labeled, and that legends (if provided) are clear and legible. Use small symbols on charts for data points. Ensure that axis marks and axis labels are large enough to read clearly. Use all the white space where possible. Provide meaningful headings for charts, as well as a caption explaining the data. Be aware of the expected standards covering image manipulation and the standard practice for image presentation in your field, and adhere to them. In particular, avoid excessive density, contrast, and hue manipulation of photographic images. Where extensive manipulation of images is required for data extraction or analysis, this must be clearly explained as part of your methods, and explicitly in the caption for each figure.

Conclusion

This is the conclusion. You might want to leave it unnumbered, as it is now. If you want to number it, treat it like any other chapter.

Appendix A

Book binders in Okinawa

Permanent Binding

Black Buckram with gold lettering following the template in Appendix 2 of the official

guidelines (not this LATEX document). Arial font. Spine lettering includes title (or brief

version), OIST PhD Thesis, your name, year. Arial.

Print on acid-free paper.

Book binding services are available from Shocopy (Naha) or Laminex (Okinawa City).

The cost is approx. 8,000 yen per volume. The Graduate School will pay for a supervisor

copy. You may bind additional copies at your own expense.

Shocopy

Located in Naha.

URL: http://www.shocopy.com/ (Japanese only)

Address: Kume 1-4-25, Naha, Okinawa, 900-0033.

TEL: 098-866-5027

FAX: 098-866-5144

Closed on weekends and holidays. Opening hours: 9:00 to 17:30.

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Laminex

Located in Koza, Okinawa City.

 $\mathbf{URL} \colon \mathtt{http://www.laminex-c.jp/content/view/18/31/} \ (\mathrm{Japanese\ only})$

Address: Uechi 2-9-6, Okinawa City, Okinawa, 904-0031.

Email: koza@laminex-c.jp

 \mathbf{TEL} : 098-932-1234

FAX: 098-933-2001

Appendix B

Appendices and Supplementary Data

Unlike a journal article, no data or discussion may be presented separately as unpublished supplementary documents or data. Appendices should be used instead for material that is tangentially relevant to the thesis but does not fit in the main narrative. If you need to refer to large volumes of data that cannot be printed (such as an annotated genome, or a simulation with moving images), lodge the data on an OIST repository or a public database and provide the URL of the dataset in the thesis.

Bibliography

- [1] H. Lee and M. Scully, *The Physics of EIT and LWI in V-Type Configurations*, Found. Phys. **28**, 585–600 (1998).
- [2] S. Filipp, P. Maurer, P. J. Leek, M. Baur, R. Bianchetti, J. M. Fink, M. Göppl, L. Steffen, J. M. Gambetta, A. Blais, and A. Wallraff, Two-Qubit State Tomography Using a Joint Dispersive Readout, Phys. Rev. Lett. 102, 200402 (2009).
- [3] M. Mücke, E. Figueroa, J. Bochmann, C. Hahn, K. Murr, S. Ritter, C. J. Villas-Boas, and G. Rempe, Electromagnetically induced transparency with single atoms in a cavity, Nature 465, 755–758 (2010).
- [4] H. Kramers, Scattering of light by atoms, Atti Cong. Intern. Fisica Como 2, 545–557 (1927).

Published articles

OIST Graduate University Policies, Rules & Procedures

Authority:

- Approved by the President
- OIST School Corporation Act

Chapter 1. WHO WE ARE: Founding and Governing Principles

1.1 FOUNDING OF THE OIST GRADUATE UNIVERSITY

The Okinawa Institute of Science and Technology Promotion Corporation (OIST PC) was established on September 1, 2005, pursuant to the Independent Administrative Institution Okinawa Institute of Science and Technology Promotion Corporation Act (Act No. 26 of 2005), in order to prepare the way for an international graduate university (the University) dedicated to science and technology. Following the successful establishment and operation of OIST PC, the OIST School Corporation Act (Act No. 76 of 2009) was enacted to provide the institutional basis for the University and to establish a framework for transitioning from a research institute to a fully functioning graduate university.

The express objectives of the OIST School Corporation (OIST SC) are to conduct outstanding international research and education in science and technology, and by this means to:

- ~contribute to the sustainable development of Okinawa; and
- ~to advance science and technology in Japan and the rest of the world.

1.1.1 OBJECTIVES OF THE OIST GRADUATE UNIVERSITY

The founding documents established five central concepts to guide the University:

Best in the World - Be a leading center for education and research, which requires a culture where creativity, uniqueness, and diversity are encouraged.

International – Aim that more than half of the faculty and students will be non-Japanese and that English, as the international language of science and technology, will be the University's official language.

Flexible – Encourage innovation, creativity, and adaptability (academically and administratively), accommodate new initiatives, establish an interdisciplinary academic structure, and treat every student as a unique individual.

Global Networking – Increase research and education opportunities and enhance the visibility of the University through

hosting, attending at and participating in international meetings, conferences, workshops, collaborations, and the like.

Collaboration with Industry – Recognize that the research outcomes generated by the University's research in science and technology may be developed and applied by industry for the benefit of society in general as well as to facilitate sustainable development of Okinawa and the competitiveness of Japan.

1.1.2 SCHOOL CORPORATION & UNIVERSITY MANAGEMENT STRUCTURE

In keeping with the mandate of the OIST School Corporation Act, OIST SC and the University present a unified management structure:

The ultimate authority and responsibility for the management and operation of the OIST SC is vested in its Board of Governors (BOG). The BOG selects a Chief Executive Officer (CEO) for OIST SC, and the CEO also serves as the President of the University. The BOG entrusts the day-to-day management of the University to the President. Additionally, the BOG appoints the Senior Level Executive, who is also the Vice-CEO.

The President, in consultation with the BOG, establishes a management structure for the University, a structure which is to be an efficient and effective vehicle for operating a distinguished international graduate university and which will ensure transparency and accountability in its administrative and fiscal operations.

1.2 MISSION STATEMENT

The University shall conduct internationally outstanding education and research in science and technology, and thus contribute to the sustainable development of Okinawa, and promote and sustain the advancement of science and technology in Japan and throughout the world.

1.3 CORE VALUES

Integrity, honesty, fairness, respect for others, and dedication to the OIST mission are the values that inform the activities and behaviors of individuals working for, or asserting an affiliation with, the University. The University promotes diversity and provides equal opportunities for all community members without regard for race, color, religion, national origin, ancestry, physical or mental disability, medical condition, marital status, gender, sexual orientation, or age.

In addition, the University operates within the principles established by the following policies:

1.3.1 OPENNESS IN RESEARCH

The University's central functions of teaching, learning, researching, and publishing depend upon an atmosphere in which freedom of inquiry, thought, expression, scholarship and peaceable assembly are given full protection and support. Therefore, it is University policy that expression of the widest range of viewpoints is to be encouraged within the University.

In order to support the open and free exchange of ideas, the University as a matter of policy also encourages participation in the research enterprise by a diverse body of highly qualified individuals. Except in extraordinary circumstances as determined by the President [link: 2.4.1], participation in University research by otherwise qualified individuals will not be limited by citizenship, nationality, or ethnicity. Similarly, participants in University research shall not be denied access - based on citizenship, nationality, or ethnicity - to the intellectually significant portions of their research.

Additionally, because the University's research is intended for dissemination within the interested scientific community and throughout the world, only time-limited publication and disclosure restrictions based on contractual and/or legal obligations, such as those required for purposes of peer review and patentability review, may be imposed on the research.

1.3.2 **RESPECTFUL WORKPLACE**

OIST Graduate University Respectful Workplace Policy

The University is committed to providing a work environment that promotes education, research, and productivity through working relationships based on respectful communication. This commitment calls for a workplace where the following core values are upheld:

- 1. Everyone at OIST without exception has an important contribution to make toward the overall success of the University's mission.
- 2. This mission will be carried out in an atmosphere where all employees, in all types of jobs, value each other and treat each

- other with respect. Communication between employees should be polite at all times. This will be true even in situations of high pressure and urgency.
- 3. Diversity among employees is celebrated at OIST and employees must at all times exercise tolerance and respect for cultural, gender, ethnic and other differences. Special consideration should be given to those employees with physical or mental impairment.
- 4. Managers, supervisors and others in positions of authority should consider themselves as role models in the promotion of these core values, without in any way abdicating their responsibility to direct their employees to perform work effectively.
- 5. In the same spirit, employees, irrespective of their job title, are encouraged to discuss issues of concern without fear that those discussions will result in negative treatment or punitive consequences from any other employee of the University.
- 6. To promote mutual understanding and avoid unnecessary conflicts, an atmosphere where native English speakers are considerate of non-native speakers, and vice versa, is expected so that no language-related barrier restricts employees from participating in discussions or in asking questions.
- 7. In response to staff input, the University will make reasonable changes to improve the work environment and productivity at OIST.

1.3.3 COMMITMENT TO STUDENTS

The University's PhD program is at the heart of the University, and its participants are selected from the very best science and technology graduate students in the world. The University is committed to their success, both while in the thesis program and beyond. During their graduate training at the University, each student will work closely with world-class faculty pursuing unique, highly individualized programs of study in modern well-equipped laboratories. The University's international composition and interdisciplinary approach has been expressly designed to spark exploration, creativity, discussion and innovation, in order to assure that our students will advance the cutting edge of research in science and technology. By providing excellent conditions for thesis research (including good practical support for living and thriving in Okinawa), the University advances the goals of its

1.4 UNIVERSITY CODE OF CONDUCT

The Code of Conduct (Code) is a statement of our shared and mutual commitment to upholding ethical, professional and legal standards in conducting our lives and making decisions within the University community. The University values integrity, honesty, fairness, diversity, respect for others, and equality of opportunity; it strives to assure that no activity of the University undermines fundamental principles of human dignity. As members of the University community, all faculty, staff, students, University officers, members of the Board of Governors, and all University affiliates and volunteers are responsible for maintaining and demonstrating these values and for observing the ethical standards of both the University and the broader community in which it operates. The values contained in this Code of Conduct must be integral elements of the University's educational, research and business practices. Each of us also must be cognizant of, and comply with, the relevant external policies, standards, laws and regulations that pertain to our activities.

1.4.1 APPLICABILITY

The University's Code applies to the following members of the University community:

- ~ Those who are paid by the University when they are working for the University, including faculty, staff, researchers and students;
- ~ Those doing business with the University, such as consultants, vendors, and contractors;
- ~ Those who perform services for the University as volunteers; and
- \sim Those who assert an association with the University (such as alumni).

1.4.2 BUSINESS TRANSACTIONS & OTHER ACTIVITIES

Members of the community must transact University business in compliance with applicable laws, regulations, and University policies, rules, and procedures. Business transactions and other activities within the University may not always be subject to specific laws, regulations, or codes of ethics. In these instances, our core values will govern. The fact that a particular business or other practice is common, customary, or expedient will not justify its use at the University if that practice conflicts with the core values of the University or any other the requirements of the Code.

1.4.3 **PROTECTION OF INFORMATION**

Community members receive and generate on behalf of the University various types of confidential, proprietary, and private information. It is imperative that each member of the University community understands and complies with Japanese law concerning access to and disclosure of various types of information. In addition, each member of the University community must comply with disclosure/nondisclosure agreements with third parties, and with University policies, rules and procedures [link: 12] pertaining to the use, protection and disclosure of such information. Be aware that, in some cases, these rules and procedures may continue to apply even after a person's relationship with the University has ended.

1.4.4 CONFLICT OF INTEREST/CONFLICT OF COMMITMENT

Members of the University community who serve as faculty or staff owe their primary professional allegiance to the University and its mission. Outside professional activities, private financial interests, or the receipt of benefits from third parties can cause an actual or perceived divergence between an individual's private interests and the duty of allegiance to the University.

To help prevent such a potential conflict of interest or commitment (including the appearance of a conflict) from arising, faculty and staff who have other professional or financial interests shall disclose them in compliance with applicable conflict of interest/conflict of commitment policies and procedures set out in the Policies, Rules and Procedures Library at Chapter 22, Avoiding Conflicts of Interest & Commitment. [link: 22].