

Dear ParisTech Arts & Metiers,

I hereby, Fabien Rouault, give my full authorization to publish the content of this letter on your website in recognessence of the financial support that you have provided me with.

Full Name: Fabien Rouault

Date: 01/20/2010

Signature:

1. Name of student, background, professional aspirations (1 paragraph, 5 lines)

My name is Fabien Rouault, I am a graduate student in Arts et Métiers ParisTech. I was eager to get professional experience abroad. Thanks to the program Projet Industriel à l'International, I got a 6-month break in my studies to achieve my project. Then, I would like to continue my studies with Ph.D. in energy and sustainable development.

2. Please tell us how you were able to get your internship, and the date and length of your stay (1 paragraph, 5 lines)

To get my internship, I tried several ways such as family contacts and alumni of Arts et Métiers. Finally, I got a contact thanks to a former colleague of my brother. This contact was looking for an intern specialized in thermal transfers. So I sent him a resume and a cover letter. My internship started on July, 1st 2009 and its length was 25 weeks.

3. Please tell us the company or university where you interned and the objective of your internship (1 paragraph, 10 lines), and why you were excited to work there. (1 paragraph, 10 lines)

I interned in the Center for Advanced Power Systems, a department of the Florida State University in Tallahassee. CAPS is research center specialized in power systems technology. It focused on electric power modeling and simulation, thermal management and high temperature superconductor. I integrated Dr. Sastry's Team which is composed of 4 doctors, a Ph.D. student, a graduate student and a undergraduate student. This team was specialized in high temperature superconductor. I belonged to this team as thermal specialist. Indeed, the topic of my internship was "Calculation of heat transfer at cryogenic temperature in superconducting devices".

I was excited to work there because I really wanted to work in energy research and superconductors seemed really interesting to me. Furthermore, It was my first experience out of Europe, so it was a new opportunity to live in a different culture and to experiment how I can adapt myself to a new environment.

4. Please tell us how you used the funds provided by American Friends of Arts et Metiers (1 paragraph, 5 lines)

I didn't apply for donations from American Friends of Arts et Métiers because I did not know the association before. I used the funds provided by my parents. This funds permit to me to buy my round trip ticket, my first month in the US. In fact, I received my first paycheck after a month of work. I also bought a used car during my first month. If I get a donation from American Friends of Arts et Métiers, I could give the money back to my parents.

5. Please summarize your internship, how you achieved the company/university's objectives (1 paragraph, 5 lines), as well as your own personal goals and lessons from this experience (1 paragraph, 5 lines), and finally how this impacted your professional aspirations (1 paragraph, 5 lines).

During my internship, I was really autonomous. For example, my tutor gave wanted me to make a thermal model in a cryostat and I had to compute and then to exploit data to underline the behavior of

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the device. To achieve my work, I got an office in an open space with a computer. I also had a second advisor specialized in heat transfer who helped me to solve my different issues in my calculation.

My personal goal was to get an experience in a new experience in another country. Moreover, I wanted to learn about the research domain. So it was to me the perfect internship. I was also eager to confront my knowledge with practical problem and I concluded that even if I am not a specialist in any domain, my formation gave me a lot of tools to understand what happen. Tallhassee is a melting pot; I met a lot of people from different culture. So it was really interesting to learn about cultures and to compare them.

This experience confirmed that I want to work in energy. In fact, I saw a lot of projects in development such as fuel cell and bioreactor. By meeting researchers and Ph.D. students, It also gave me the will to continue my studies with a Ph.D. in France.