

## Positions/internships @ Credit Suisse

### CREDIT SUISSE . FIRM OVERVIEW

As one of the world's leading banks, Credit Suisse provides its clients with investment banking, private banking and asset management services worldwide. Credit Suisse offers advisory services, comprehensive solutions and innovative products to companies, institutional clients and high-net-worth private clients globally, as well as retail clients in Switzerland. Credit Suisse is active in over 50 countries and employs approximately 40,000 people. Credit Suisse's parent company, Credit Suisse Group, is a leading global financial services company headquartered in Zurich.

In its Investment Banking business, Credit Suisse offers securities products and financial advisory services to users and suppliers of capital around the world. Operating in 57 locations across 26 countries, Credit Suisse is active across the full spectrum of financial services products including debt and equity underwriting, sales and trading, mergers and acquisitions, investment research, and correspondent and prime brokerage services.

Our commitment to providing outstanding service to our clients, our focus on teamwork, diversity and excellence means our recruitment of the best and brightest people is essential to our success.

#### Application Instructions

Below you will find descriptions of opportunities that are available for full-time positions as well as summer internship positions.

Full-time opportunities will begin in June/July 2008 and summer internship opportunities will begin in June 2008.

After carefully reading each description, you can apply to the job that interests you the most at your career services office as well as at [www.credit-suisse.com/careers](http://www.credit-suisse.com/careers).

If you have any questions, please email [Phd.recruiting@credit-suisse.com](mailto:Phd.recruiting@credit-suisse.com).

### FULL-TIME OPPORTUNITIES

#### INFORMATION TECHNOLOGY DIVISION

#### IT QUANT ASSOCIATE PROGRAM (Emerging Technology Professionals)

##### Program Overview

The Credit Suisse IT Quant Associate Program is an elite initiative to hire summer and full-time Masters of Financial Engineering and/or Post Doctorate students who can create engineering solutions to support our quantitative products and processes such as Derivatives and Risk Management. Students are hired directly into the technology organizations supporting the Investment Banking (IB) businesses. In addition to the responsibilities within their respective divisions, the associates are aligned with a training curriculum that focuses on the development of personal skills and business knowledge. The training enhances the performance of the Associates in their day-to-day business assignments and encourages participants to understand and support the strategic direction of the firm.

##### Training

Training for this program is designed to give participants a core set of skills

and knowledge about the Financial Services industry and Credit Suisse. Full-time program begins in July 2008 with a full-day business orientation that will introduce hires to Credit Suisse, Investment Bank (IB) and core businesses within IB. Throughout their tenure training will occur sporadically over the course of two years for different courses and discussions. The courses will be aligned with the technology as well as the needs of the different businesses. A sampling of the training includes:

- HR and IB Orientation
- Introduction to Securities Services
- Introduction to Fixed Income
- Introduction to Equities
- Cash Management Fundamentals

#### Qualifications

Applicants must be final-year candidates at a university, studying to obtain a PhD or MS in a quantitative field such as Mathematics, Physics, Engineering, Computer Science, Operations Research, Econometrics, Economics, or Quantitative Finance. Programming experience is generally desirable and essential for certain areas of our businesses. Prior knowledge of finance is not required; however, candidates should have a genuine curiosity of and demonstrated interest (coursework, work experience) in the financial markets. Candidates should be able to explain their thought processes, however complex, in a clear and concise fashion.

We seek candidates with a strong work ethic, high energy level, and strong interpersonal and communication skills.

Successful program participants share many common traits. They are:

- Analytical thinkers, with software development skills
- Quick learners, assimilating information quickly, organizing it, and putting it into useful form
- Quick to seek the help of peers, recognizing the value of support and mutual assistance
- Enthusiastic, eager to advance quickly and assume greater leadership responsibility
- Comfortable thinking outside the box and innovating beyond the limits of a position
- Ability to work in a fast paced environment

#### GLOBAL MODELING AND ANALYTICS GROUP (GMAG)

#### EQUITY AND FIXED INCOME QUANTITATIVE ASSOCIATE PROGRAM

#### GMAG Description

The Global Modeling & Analytics Group (GMAG) is responsible for producing state-of-the-art pricing, trading and risk management models for Credit Suisse. These models are used across a range of business in the Fixed Income and Equity Divisions. The group's mandate covers all major asset classes, including Credit Derivatives, Commodities, Emerging Markets, Equity Derivatives and Convertibles, Exotics, Foreign Exchange, Fund Linked Products, Interest Rate Products and Mortgage Derivatives. GMAG operates globally with 100 members located in New York, London, Hong Kong and Tokyo.

Established in 1990, GMAG enjoys a strong relationship with Trading, Structuring and Sales and over time has developed an extensive suite of pricing models and analytics libraries. As the group is based on the trading floor, it is ideally placed to respond to the financial modeling needs of the businesses it supports. New Associates will join one of four specialist modeling teams in GMAG (e.g. Equities, Foreign Exchange, Interest Rates, Credit) as a Financial Modeler or in our Architecture and Delivery team as a Quantitative Developer. As a Financial Modeler, you will be responsible for the design, implementation and delivery of sophisticated mathematical models for the valuation of derivatives, as well as supporting the use of our existing models throughout the bank. Our Financial Modelers typically hold an advanced quantitative degree, have strong programming skills and are confident communicators. As a Quantitative Developer, you will be focusing on development of state-of-the-art pricing and risk infrastructure, designing innovative tools for rapid model deployment and producing complex components for high performance computing applications. Our Quantitative Developers typically hold an advanced Computer Science or Engineering degree, are expert programmers and have strong algorithm design skills.

Both roles require a talent for creating innovative and practical solutions to real problems, the ability to work effectively as part of a team and a desire to continue learning new modeling techniques or technologies. Prior knowledge of financial modeling or experience in the banking industry is not required.

#### Training

Your career with us begins with the GMAG Training Program, an intensive, 12 week course of seminars, discussions and practical exercises to introduce you to the principles of financial modeling, the existing library of GMAG models, as well as our development platform. The GMAG Training Program, has been developed in-house by senior members of the group for the benefit of new joiners, is taught by experienced modelers and is continually updated to reflect recent innovation.

While participating in the Training Program, you will already be taking part in the work of one of the product teams and attending regular team meetings with your colleagues globally. Following the completion of the Training Program, you will start a mentored project under the supervision of an experienced colleague, thereby gaining in-depth exposure to a particular modeling and business area. Successive projects will introduce you to the full range of skills and techniques required to advance your career within GMAG. In addition, continuous learning is actively encouraged through a wide variety of initiatives including internal and external seminars and conferences, product area rotations within GMAG and joint project work.

Because of its size and breadth of mandate, GMAG offers an unusually wide range of career opportunities. Some members choose to specialize in their own product area while others rotate to a different product area or move to a different center. This provides the team members with new learning opportunities and promotes cross-fertilization of ideas across the group. While the large

majority of GMAG members tend to stay with the group for the long term, there are also opportunities to leverage the skills learned in GMAG and transfer to trading or structuring.

#### Qualifications

You will have earned or be studying to obtain a PhD in a quantitative field such as Mathematics, Physics, Engineering, Computer Science, Operations Research, or Finance - Prior knowledge of finance is not required, however, candidates should have a genuine interest in the area and should be able to demonstrate highly advanced mathematical modeling skills - Programming experience and exposure to algorithms is generally desirable and required for certain areas in our business. In addition, strong interpersonal and communication skills, a team-player with a positive co-operative attitude, good organizational skills and the ability to work on multiple projects simultaneously and fluency in English are essential.

#### RISK AND QUANTITATIVE ANALYSIS (RQA) GROUP

#### EQUITY AND FIXED INCOME QUANTITATIVE ASSOCIATE PROGRAM

#### RQA Description

The Risk and Quantitative Analysis Group (RQA) is a front office "quant" group that provides desk-level quantitative solutions for Traders and Structurers of the Fixed Income and Equities business at Credit Suisse. The team develops and uses state-of-the-art quantitative tools, techniques, and systems to optimize trading, hedging and business decision making as well as identifying relative value opportunities. The group operates in New York, London, Hong Kong and Tokyo, covering trading business across vanilla and exotic interest rates products, structured credit derivatives, commodities, emerging markets, foreign exchange derivatives, proprietary trading and equity derivatives.

#### Training

One of the key objectives of the RQA group is to provide a quantitative training program for future traders and other front office professionals within Credit Suisse. Candidates will be trained and become skilled across disciplines such as financial modeling, derivative mathematics, traded markets, and the use of the firm's front office systems. Following formal training, junior members of the group will spend two to three years rotating between trading desks, spending 9 months on each desk, one of which could be overseas. At the end of the rotation period, the candidate will become a trader or structurer; continue on as a senior member of RQA; or join one of the other quantitative groups within the firm.

#### Qualifications

The RQA group is looking to recruit outstanding quantitative individuals to join our team. Applicants must be final-year candidates at a university, studying to obtain a PhD in a quantitative field such as Mathematics, Physics, Engineering, Computer Science, Operations Research, Econometrics, or Quantitative Finance. In addition to an advanced quantitative degree, candidates should be able to demonstrate highly advanced mathematical modeling skills; experience with probability, statistics, linear algebra, signal processing, and optimization are all helpful. Programming experience and

exposure to algorithms is generally desirable and essential for certain areas of our businesses. Prior knowledge of finance is not required; however, candidates should have a genuine curiosity of and demonstrated interest (coursework, work experience) in the financial markets.

These technical skills need to be balanced against a number of personal attributes such as: a pragmatic approach to problem solving; an ability to explain complex and/or technical matters clearly, accurately; and simply; and a high level of interpersonal skills, including being proactive and delivery focused, for close contact with the Trading team.

#### PROPRIETARY TRADING

#### EQUITY AND FIXED INCOME QUANTITATIVE ASSOCIATE PROGRAM

##### Proprietary Trading Description

Proprietary Trading involves making educated bets using Credit Suisse's balance sheet, much like an internal hedge fund. In the dynamic and highly competitive capital markets, the main challenge is to constantly improve upon existing models and expand into new areas. As a significant market player, Proprietary Trading groups research, develop, and run a wide variety of quantitative trading strategies including index arbitrage, statistical arbitrage, high frequency market making, and market neutral relative value.

##### Training

New associates in Proprietary Trading will take part in the firm-wide Analyst and Associate Training Program. This program includes a broad range of core skills training such as Accounting and Economics as well as specific financial products training in Equity and Fixed Income. At the end of the Associate Training Program, new associates will work with the desk they are hired for with their manager and will be given a task that best leverages the talents that he/she has thus far demonstrated. Associates will be increasingly challenged in a fast paced environment as they prove themselves.

##### Qualifications

Credit Suisse is looking to recruit several outstanding individuals to join our team. Applicants must be final-year candidates at a university, studying to obtain a PhD or MS in a quantitative field such as Mathematics, Physics, Engineering, Computer Science, Operations Research, Econometrics, Economics, or Quantitative Finance. In addition to an advanced quantitative degree, candidates should be able to demonstrate highly advanced mathematical modeling skills; experience with probability, statistics, linear algebra, signal processing, and optimization are all helpful. Programming experience and exposure to algorithms is generally desirable and essential for certain areas of our businesses. Prior knowledge of finance is not required; however, candidates should have a genuine curiosity of and demonstrated interest (coursework, work experience) in the financial markets. Candidates should be able to explain their thought processes, however complex, in a clear and concise fashion.

There is no standard template to be a successful Proprietary Trader. Many of the current members of Proprietary Trading have distinguished themselves academically through their participation in Mathematics or Programming Contests

or Olympiads, or original academic research and publications. They are also able to explain their thought processes, however complex, in a clear concise fashion. We are looking for individuals that have strong quantitative backgrounds that are able to learn quickly on the job. Individuals who show the ability to program, a passion for trading or watching financial markets, original insight into the functioning of the markets, or intellectual honesty will be attractive candidates. While we generally hire PhDs with degrees in Computer Science, Physics, Mathematics, or Econometrics, we are also open to other fields; but it would be up to candidates to defend why their field is relevant to trading. We are extremely selective, and even more selective amongst candidates whose degree is not of a quantitative nature.

#### QUANTITATIVE TRADING AND DERIVATIVES STRATEGY (QTDS) EQUITY AND FIXED INCOME QUANTITATIVE ASSOCIATE PROGRAM QTDS Description

As a member of the Equity Derivatives Strategy front office team, responsibilities include generating ideas for trading derivatives, marketing to institutional and hedge fund clients, formulating and publishing volatility research, and developing quantitative systems.

#### Training

New associates participate in Credit Suisse's in-house Training Program which introduces participants to the world of finance across all principal markets and asset classes. Candidates will be trained and become skilled across disciplines such as financial modeling, derivative mathematics, traded markets, and the use of the firm's front office systems.

#### Qualifications

Credit Suisse is looking to recruit several outstanding individuals to join our team. Applicants must be final-year candidates at a university, studying to obtain a PhD or MS in a quantitative field such as Mathematics, Physics, Engineering, Computer Science, Operations Research, Econometrics, Economics, or Quantitative Finance. In addition to an advanced quantitative degree, candidates should be able to demonstrate highly advanced mathematical modeling skills; experience with probability, statistics, linear algebra, signal processing, and optimization are all helpful. Programming experience and exposure to algorithms is generally desirable and essential for certain areas of our businesses. Prior knowledge of finance is not required; however, candidates should have a genuine curiosity of and demonstrated interest (coursework, work experience) in the financial markets. Candidates should be able to explain their thought processes, however complex, in a clear and concise fashion.

The ideal candidate will have experience with risk arbitrage, portfolio analytics, and derivatives theory and practice. Knowledge of C++/C#, VBA, etc is required. In addition, candidate must have strong communication, writing, sales, and marketing skills. Candidate must be a self-starter who is creative, sociable, and capable of coming up with original ideas and defending them.

#### SUMMER INTERNSHIP OPPORTUNITIES INFORMATION TECHNOLOGY DIVISION

## IT QUANT SUMMER ASSOCIATE PROGRAM (Emerging Technology Professionals) Program Overview

The Credit Suisse IT Quant Associate Program is an elite initiative to hire summer and full-time Masters of Financial Engineering and/or Post Doctorate students who can create engineering solutions to support our quantitative products and processes such as Derivatives and Risk Management. Students are hired directly into the technology organizations supporting the Investment Banking (IB) businesses. In addition to the responsibilities within their respective divisions, the associates are aligned with a training curriculum that focuses on the development of personal skills and business knowledge. The training enhances the performance of the Associates in their day-to-day business assignments and encourages participants to understand and support the strategic direction of the firm.

### Training

Training for this program is designed to give participants a core set of skills and knowledge about the Financial Services industry and Credit Suisse. Summer Program is a 10-week program, running from June through August, in our New York office. The training sessions are a combination of classroom and workshop based sessions and assignments, each two-week in length, with an IT sponsor. This program takes place at the same time as Credit Suisse's traditional Summer Analyst Programs so IT Quant interns will also participate in various networking events and educational activities organized by our Campus Recruiting Department and Credit Suisse Business School. During the course of the internship, interns will be evaluated and may be invited to join Credit Suisse full-time upon completion of their studies.

### Qualifications

Applicants should be in their final or penultimate year at university, studying to obtain a PhD or a Master's Degree in Financial Engineering. Programming experience is generally desirable and essential for certain areas of our businesses. Prior knowledge of finance is not required; however, candidates should have a genuine curiosity of and demonstrated interest (coursework, work experience) in the financial markets.

Successful program participants share many common traits. They are:

- Analytical thinkers, with software development skills
- Quick learners, assimilating information quickly, organizing it, and putting it into useful form
- Quick to seek the help of peers, recognizing the value of support and mutual assistance
- Enthusiastic, eager to advance quickly and assume greater leadership responsibility
- Comfortable thinking outside the box and innovating beyond the limits of a position
- Ability to work in a fast paced environment

EQUITY AND FIXED INCOME DIVISIONS

QUANTITATIVE SUMMER INSTITUTE (QSI)

## Program Overview

Credit Suisse's Quantitative Summer Institute (QSI) internship program is a 10-week program, running from June through August, in our London and New York offices. The program is targeted at PhD students in fields such as Mathematics, Physics, Engineering, Computer Science, Statistics, Economics, Operations Research, and Quantitative Finance. The QSI program offers a unique training opportunity and valuable hands on experience within the area of quantitative finance.

## Training

The QSI program is a combination of classroom and workshop sessions, quantitative project assignments, and trading desk rotations. The QSI training modules are based on our unique in-house training program run by the Global Modeling and Analytics Group. The training covers topics such as the mathematics of financial derivatives, an introduction to key derivatives markets and pricing methods, as well as, practical training on core models and libraries. These sessions are complemented by practical assignments using the same tools as those used by our modelers, traders and structurers. The training will provide interns with enough knowledge to be fully equipped for the forthcoming assignments.

Following 5 weeks of training, interns will be assigned an applied financial quantitative project where they will work on a project sponsored by one of the businesses or by one of the core quantitative teams - Global Modeling and Analytics Group (GMAG), GMAG Architecture and Delivery, Risk and Quantitative Analysis Group, Proprietary Trading, or Research. Additionally the interns will have the opportunity to sit on up to 3 trading desks.

This program takes place at the same time as Credit Suisse's traditional Summer Analyst and Associate Programs (for BA and MBA students) so QSI interns will also participate in various networking events and educational activities organized by our Campus Recruiting Department. During the course of the internship, interns will be evaluated and given feedback by our quantitative and recruiting staff. The best QSI interns will be invited to join Credit Suisse full-time upon completion of their studies.

## Qualifications

Applicants should be in their final or penultimate year at university, studying to obtain a PhD in a quantitative field such as Mathematics, Physics, Engineering, Computer Science, Operations Research, Statistics, Econometrics, Economics, or Quantitative Finance. In addition to an advanced quantitative degree, candidates should be able to demonstrate highly advanced mathematical modeling skills; experience with probability, statistics, linear algebra, signal processing, and optimization are all helpful.

Programming experience and exposure to algorithms is generally desirable and essential for certain areas of our businesses. Prior knowledge of finance is not required; however, candidates should have a genuine curiosity of and demonstrated interest (coursework, work experience) in the financial markets.