

# VEILLE TECHNOLOGIQUE

LIENS DES RESSOURCES  
FEDNAIL LECLERCQ

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# ⌚ Objectifs de la veille :

Comprendre le fonctionnement de l'ordinateur quantique.

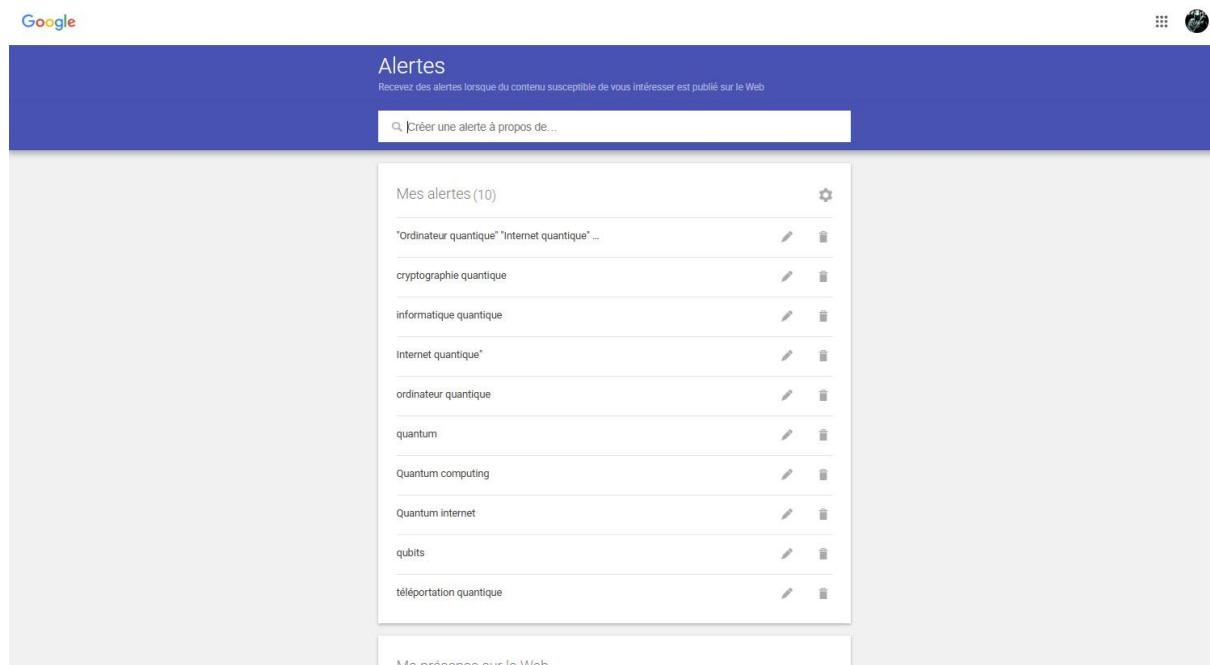
Identifier les impacts de cette technologie sur l'informatique actuelle et future.

Explorer les langages, Framework et simulateurs quantiques accessibles aux devs.

## 🌐 Ressources clés utilisées :

Dans le cadre de ma veille technologique axée sur l'ordinateur quantique et l'internet quantique, j'ai adopté une stratégie d'information multi-sources, alliant rigueur académique et réactivité face à l'actualité tech. J'ai configuré des Google Alertes sur des expressions clés comme "quantum computer", "quantum internet", "Qubit" ou "quantum teleportation" pour rester informé en temps réel des innovations et découvertes majeures. À cela s'ajoutent des flux RSS spécialisés issus d'ArXiv.org (section Quantum Physics), Feedly et RSS.app, qui m'ont permis de suivre de manière structurée les publications scientifiques et les articles techniques. Pour enrichir la veille avec des retours communautaires, j'ai suivi le subreddit r/QuantumComputing, où chercheurs, développeurs et passionnés échangent autour des défis concrets de la programmation quantique, des expériences réseau quantique ou encore des simulateurs d'IBM et Google. Enfin, j'ai utilisé la documentation officielle Qiskit, ainsi que des tutoriels visuels (YouTube – IBM Research, Coding Tech) pour expérimenter la téléportation quantique et comprendre les concepts clés derrière les futurs réseaux quantiques.

## Google Alertes



The screenshot shows the Google Alerts interface. At the top, there's a blue header bar with the Google logo and a search bar containing the placeholder "Créer une alerte à propos de...". Below the header, the main title "Alertes" is displayed, followed by the subtitle "Recevez des alertes lorsque du contenu susceptible de vous intéresser est publié sur le Web". A list titled "Mes alertes (10)" contains ten entries, each with a edit icon (pencil) and a delete icon (trash can). The alert names are: "'Ordinateur quantique'" "Internet quantique" ..., "cryptographie quantique", "informatique quantique", "Internet quantique\*", "ordinateur quantique", "quantum", "Quantum computing", "Quantum internet", "qubits", and "téléportation quantique". At the bottom of the page, there's a small link "Ma présence sur le Web".

<https://www.google.fr/alerts?authuser=1>

The screenshot shows the Feedly.com web interface. On the left, there's a sidebar with navigation links like 'Today', 'Follow Sources', 'Create AI Feed', 'Search', 'Read Later', and 'Recently Read'. Below that is a 'Favorites' section with a single item: 'Veille technologique (ordinateur)'. Under 'Feeds', there's a list of categories: 'All', 'Dev', 'geek', and 'veille technologique'. 'veille technologique' is expanded, showing sub-categories: Computer Science News ..., D-Wave, Institute for Quantum Co..., Quantiki - Quantum Infor..., Quantum, Quantum Computers Ne..., Quantum Computing Ne..., Quantum Computing Rep..., Quantum Zeldat, rQuantumComputing, and Stanford University Scho...'. There are also '4 more feeds' and a 'Boards' section with one item: 'Veille technologique (ordinateur)'. At the bottom of the sidebar is an 'Integrations & API' link.

The main content area displays a news article titled 'UCalgary's Quantum City qHub: A Pioneering Step in Shaping Alberta's Future in Quantum Technology' by Quantum Zeitgeist. The article is dated April 23, 2025, at 5:35 PM. It includes a photo of three people at a ribbon-cutting ceremony for the qHub. A poll asks 'Is this article about Defense Industry?' with 'Yes' and 'No' options. Below the article is a summary: 'The launch of UCalgary's Quantum City qHub, a collaborative hub for quantum technology research and development, signals Alberta's emergence as a leader in quantum innovation, poised to drive economic growth and contribute to global technological advancements.' A 'Visit Website' button is at the bottom.

<https://feedly.com/i/collection/content/user/5936e956-132b-44ec-ad9fbe4fc81cd8d4/category/d2b3dbe8-4fa0-487b-895a-4a5b5034f658>

## Reddit

[r/QuantumComputing](https://www.reddit.com/r/QuantumComputing)

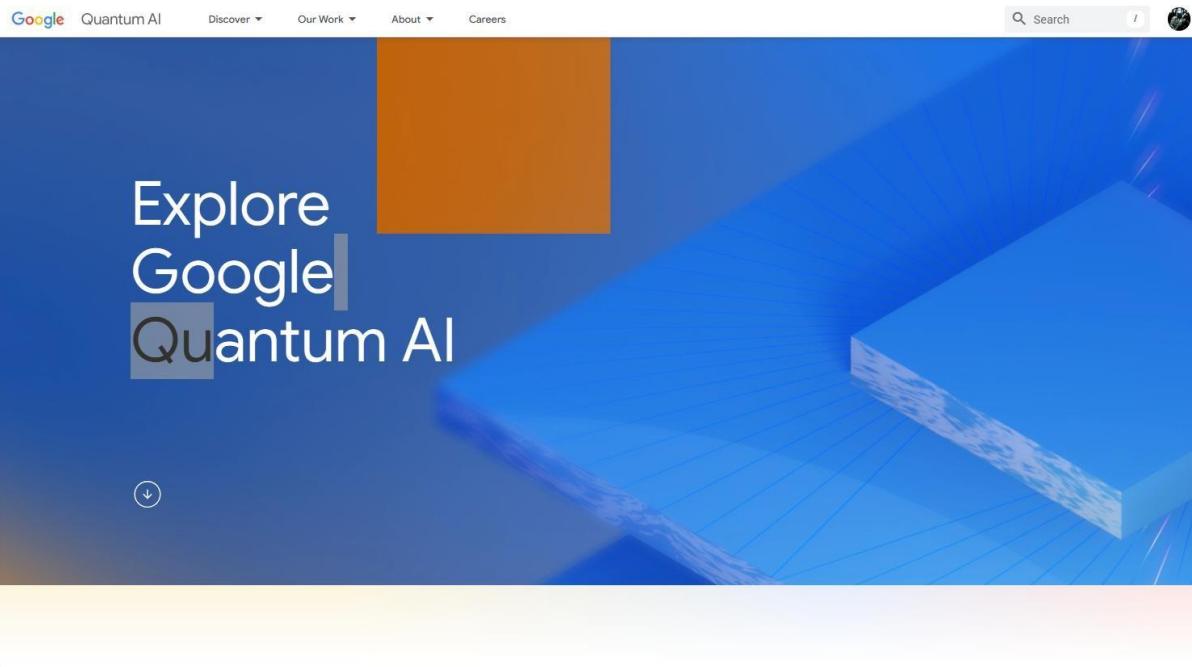
The screenshot shows the r/QuantumComputing subreddit on Reddit. The sidebar on the left has links for 'Home', 'Popular', 'Explore', 'All', 'Custom Feeds', 'Recent', 'Communities', and 'About'. The main content area shows the subreddit banner with the title 'r/QuantumComputing'. Below the banner is a 'Community highlights' section featuring a 'Weekly Career, Education, Textbook, and Basic Questions Thread'. The main feed lists several posts: 'Scientists achieve quantum communication across 155 miles of conventional fiber optics' by u/Legibleq, 'Is there any Quantum groups in Sydney? And do you think it's worth checking out on a hobby level?' by u/etherndeordie, and 'New video! Quantum computers explained visually' by u/b11311. To the right of the feed is a sidebar for 'Quantum Computing' with a description, creation date (Sep 20, 2009), member count (69K), online users (30), and a 'Top 2%' rank. It also shows 'USER FLAIR' (ridemonet) and 'RULES' with ten items. The bottom of the sidebar has a 'Date' and 'Description consultée' link.

Ressource

Lien

Date  
Description consultée

<b>IBM Quantum</b>	<a href="https://quantum-computing.ibm.com">https://quantum-computing.ibm.com</a>	Plateforme de calcul quantique 25 avec simulateurs et IDE Qiskit.	05/01/20
<b>Qiskit Documentation</b>	<a href="https://qiskit.org/documentation/">https://qiskit.org/documentation/</a>	Lib Python open source pour coder 25 des circuits quantiques.	10/01/20
<b>Quanta Magazine</b>	<a href="https://www.quantamagazine.org">https://www.quantamagazine.org</a>	Articles de vulgarisation scientifique 25 pointus et actu sur la physique quantique.	22/01/20
<b>Microsoft Azure Quantum</b>	<a href="https://azure.microsoft.com/en-us/products/quantum/">https://azure.microsoft.com/en-us/products/quantum/</a>	Introduction au service de cloud 25 quantique de Microsoft.	01/02/20
<b>D-Wave Systems</b>	<a href="https://www.dwavesys.com">https://www.dwavesys.com</a>	Pionnier du calcul quantique basé 12/02/2025 sur l'annealing.	
<b>YouTube – ScienceEtonnante, Lex Fridman, Veritasium</b>	Divers liens	Vidéos explicatives sur la Tout au long logique quantique, de la superposition et période les qubits.	
<b>ArXiv.org – Quantum Computing</b>	<a href="https://arxiv.org/archive/quant-ph">https://arxiv.org/archive/quant-ph</a>	Prépublications scientifiques sur 02/03/20 25 les avancées dans le domaine.	
<b>GitHub – Awesome Quantum</b>	<a href="https://github.com/desireevl/awesome-simulators-and-tools">https://github.com/desireevl/awesome-simulators-and-tools</a>	Collection de ressources, outils, projets open source.	
<b>Google Quantum AI</b>	<a href="https://quantumai.google/">https://quantumai.google/</a>	Actus et projets de Google en calcul quantique.	20/03/2025



## Clubic

Informatique quantique : où en est-on ?

<https://www.clubic.com/technologies-d-avenir/actualite-854536informatique-quantique.html>

## TECHNOLOGY

# How 1,432 GPUs Cracked Google's 53-Qubit Quantum Computer

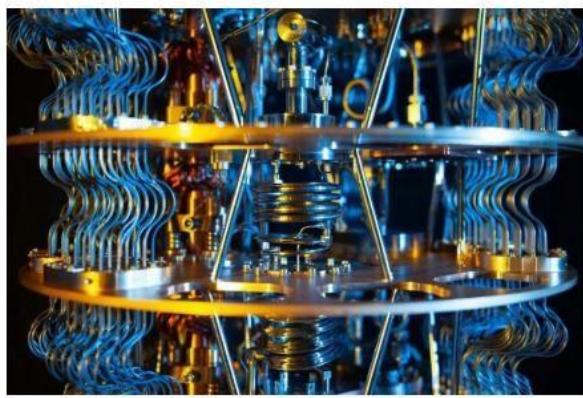
BY SCIENCE CHINA PRESS — APRIL 21, 2025

1 COMMENT

3 MINS READ

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## SHARE



A view of the Google dilution refrigerator, which houses the Sycamore chip.

Credit: Google Quantum AI

Researchers have achieved a major leap in quantum computing by simulating Google's 53-qubit Sycamore circuit using over 1,400 GPUs and groundbreaking algorithmic techniques.

[Facebook](#)[Twitter](#)[Pinterest](#)[YouTube](#)

## Don't Miss a Discovery

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<https://scitechdaily.com/how-1432-gpus-cracked-googles-53-qubit-quantum-computer/>

The screenshot shows the 'My Feeds' section of the RSS.app web application. On the left sidebar, there are sections for 'My Feeds' (Bundles, Collections, Bots & Alerts, Explore), 'Starred' (quantumComputer - Reddit Search!, The most insightful stories about Programming - Medium, Google News INFORMATIQUE QUANTIQUE, Technology, Google News INTERNET Q...), and 'Trial' (6 days left). The main area displays six feeds in a grid:

- quantumComputer - Reddit Search! (https://www.reddit.com/search/?q=quantumComputer)
- The most insightful stories about Programming - Medium (https://medium.com/topic/programming)
- quantum - Reddit Search! (https://www.reddit.com/search/?q=quantum)
- Google News INFORMATIQUE QUANTIQUE (https://news.google.com/search?q=informatique%20quantique&hl=en-US...)
- Technology (https://rss.app/rss-feed?topicid=technology)
- Google News INTERNET QUANTIQUE (https://news.google.com/search?q=internet%20quantique&hl=en-US&gl=U...)

A 'Sort by: Newest' dropdown is at the top right. A 'New Feed' button is at the bottom center.

<https://rss.app/myfeeds>

## YouTube – IBM Research, Coding Tech

The screenshot shows the YouTube channel page for 'IBM Research'. The channel has 108k subscribers and 862 videos. The profile picture is a stylized 'E' logo. The channel description reads: 'IBM Research is a group of researchers, scientists, technologists, designers, and thinkers ...plus research.ibm.com et 4 autres lieux'. A 'S'abonner' button is present.

The main video thumbnail is titled 'A lab for the future of computing' with 17056 views. The description states: 'By 2030, semiconductors will allow us to integrate a trillion transistors in a single chip. AI models will have trillions of parameters and many trillions of tokens of data inside them. With quantum computing, we're going to be able to represent information that have numbers like 2 to the power of 100. We believe that the future of computing lies in the successful convergence of classical, AI, and quantum computing platform...'.

The 'Pour vous' section features four recommended videos:

- IBM Sounds of semis - 3D Integration (2.1k vues • il y a 4 mois)
- IBM Sounds of semis - Next-Gen Interconnect (798 vues • il y a 4 mois)
- IBM Sounds of semis - Nanosheet (814 vues • il y a 4 mois)
- IBM Sounds of semis - Analog AI (700 vues • il y a 4 mois)

# Gmail

A screenshot of a Gmail inbox search results page. The search term "labelveille-technologique" is entered in the search bar. The results show 29 messages from various sources, mostly Google Alerts, related to quantum computing. The messages are listed in chronological order, with the most recent at the top. Each message includes a subject line, a snippet of the content, and a timestamp indicating when it was received.

Subject	Snippets	Date
Alerte Google - Récapitulatif hebdomadaire - Google quantum ACTUALITÉS Quantum computing: la guerre des réchts a déjà commencé - FrenchWeb FrenchWeb	Lors du Quantum Day de la GTC, Jensen Huang ...	30 avr.
Nick from RSS.app	Here are your latest headlines - RSS.app Hi Fednall, New content has been added to your feeds since your last visit. Here's a few headlines from your favorite sources: This \$280 Android phone ...	28 avr.
Email Digest - RSS...	Google News INFORMATIQUE QUANTIQUE - Google News INFORMATIQUE QUANTIQUE Quantinuum's "Reimeil" Quantum Computer Now Fully Operational at RIKEN, Ushering in a New Era of Hybrid Quantum Hig...	27 avr.
Email Digest - RSS...	Google News INTERNET QUANTIQUE - Google News INTERNET QUANTIQUE IonQ to Acquire Geneva-Based ID Quantique, Enters into Global Quantum Strategic Partnership with SK Telecom Today, IonQ (NYSE: ION	27 avr.
Email Digest - RSS...	quantum - Reddit Search! - quantum - Reddit Search! Oxford Scientists Claim to Have Achieved Teleportation Using a Quantum Supercomputer ... reddit.com Feb 10, 2025 We're always adding ne	27 avr.
Email Digest - RSS...	quantum - Reddit Search! - quantum - Reddit Search! What are things that people think are "quantum physics" but are actually not? Which of these are usually fringe theories and end up bei	26 avr.
Email Digest - RSS...	Google News INFORMATIQUE QUANTIQUE - Google News INFORMATIQUE QUANTIQUE Quantum Security Firm Accelerates US Growth: Congressional-Recognized Executive Joins Leadership Team Award-winnin...	26 avr.
RSS.app	Welcome to RSS.app - Welcome to RSS.app RSS.app logo RSS.app Welcome to RSS.app! We're excited to have you join Welcome to RSS.app! Our platform allows you to quickly generate RSS feeds from any sour...	24 avr.
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS Quantum Computing Inc. annonce la vente d'un ordinateur avancé à un géant automobile Investing.com Investing.com — Quantum Comput...	23 avr.
Email Digest - RSS...	Google News INFORMATIQUE QUANTIQUE - Google News INFORMATIQUE QUANTIQUE IQC graduate student awarded new quantum information scholarship   Institute for Quantum Computing The new Samit & ...	23 avr.
Email Digest - RSS... 2	Google News INTERNET QUANTIQUE - Google News INTERNET QUANTIQUE IonQ buys ID Quantique in quantum networking patent boost IonQ is to acquire Swiss quantum networking pioneer ID Quantique has sig...	23 avr.
Email Digest - RSS...	quantum - Reddit Search! - quantum - Reddit Search! New course: quantum hardware Looks pretty cool! Feels like quantum is always five years away though. link to the course... reddit.com Apr 18, 2025 Thought...	23 avr.
Email Digest - RSS...	Google News INTERNET QUANTIQUE - Google News INTERNET QUANTIQUE IonQ buys ID Quantique in quantum networking patent boost IonQ is to acquire Swiss quantum networking pioneer ID Quantique has s...	23 avr.
Email Digest - RSS...	Google News - Google News IQC graduate student awarded new quantum information scholarship   Institute for Quantum Computing The new Samit & Reshma Sharma foundation scholarship supports Institute f...	23 avr.
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS La lumière et des atomes   France Culture Radio France 3D illustration of a working quantum computer. Quantum ... Sig	19 avr.
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS Quantum Genomics fait un point sur sa situation - 08/04/2025 - 08H00 - Actusnews Wire Actusnews Wire Quantum Genomics (Euronext Gro...	9 avr.
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS CERN scientists find evidence of quantum entanglement in sheep CERN Entanglement has also found several important societal applications, ...	2 avr.
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS Les actions de Quantum Computing chutent après une perte plus importante au quatrième ... Boursorama Traduction automatisée par Reuter...	26 mars
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS La cryptographie conventionnelle est en danger. Passez à la cryptographie post-quantique ... Le Cloudflare Blog Les ordinateurs quantiques s...	19 mars
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS Scientists discover simpler way to achieve Einstein's 'spooky action at a distance' thanks to ... Space.com When particles such as photons be	12 mars
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS Puces quantiques : l'Europe prépare son « Quantum Act » pour réglementer le secteur Le Monde Présenteé en décembre 2024, la puce d'info...	8 mars
Google Alerts	Alerte Google - Récapitulatif hebdomadaire - quantum ACTUALITÉS Quantum Machines lève 170 millions de dollars pour ses solutions de contrôle quantique L'Usine Digitale Quantum Machines compte sur cette...	26 févr.
Google Alerts 2	Alerte Google - Récapitulatif hebdomadaire - quantum WEB JHL quantum - MediaMarkt MediaMarkt Au Toute la technologie est chez MediaMarkt Smartphones, informatique, télévision ou électroménager, faites vo...	19 févr.

A screenshot of a Gmail inbox showing a detailed view of a news article. The article is titled "Quantinuum's "Reimeil" Quantum Computer Now Fully Operational at RIKEN, Ushering in a New Era of Hybrid Quantum High-Performance Computing..." It includes a thumbnail image of a quantum computer chip and a brief summary from PRNewswire. The article is dated Feb 11, 2025.

Quantinuum's "Reimeil" Quantum Computer Now Fully Operational at RIKEN, Ushering in a New Era of Hybrid Quantum High-Performance Computing...

/PRNewswire/ — Quantinuum, the world's largest integrated quantum computing company, and RIKEN, Japan's largest comprehensive research institution, today....

prnewswire.com • Feb 11, 2025

8 Best Quantum Computing Stocks to Buy in 2025

The screenshot shows a Gmail inbox with a search bar at the top containing "label:veille-technologique". A single email from "Google Alerts <googlealerts-noreply@google.com>" is listed, titled "Alerte Google – Récapitulatif hebdomadaire" for "Veille Technologique". The email body displays three news items related to quantum computing:

- Quantum computing : la guerre des récits a déjà commencé - FrenchWeb**  
Lors du Quantum Day de la GTC, Jensen Huang a raconté un épisode révélateur. Après avoir déclaré que les ordinateurs quantiques mettraient encore « 10 ...
- Ingénier conception circuits intégrés en environnement cryogénique - Quantum Computing HF - JobTeaser**  
Toute l'actualité sur ce thème
- La seconde révolution quantique dans les laboratoires de l'X - Ecole polytechnique**  
Ecole polytechnique

At the bottom of the alert, there are links to "Afficher plus de résultats" and "Modifier cette alerte".